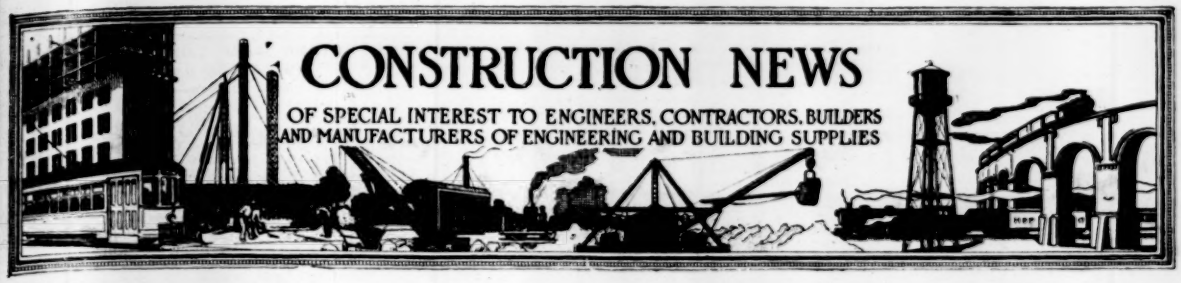
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
May 26	Coatesville, Pa. Adv. May 15.	May 15
May 27	Niles, Mich.	May 1
May 27	Niles, Mich.	May 15
May 28	Florence, Ariz.	May 15
May 28	Jersey City, N. J. Adv. May 15.	May 15
May 29	Tamaqua, Pa. Adv. Apr. 24.	Apr. 24
June 2	Mankato, Minn. Adv. May 1.	May 1
June 2	Newark, N. Y. Adv. May 15.	May 15
June 2	North Mankota, Minn.	May 15
June 3	Albert Lea, Minn.	May 22
June 4	Poughkeepsie, N. Y. Adv. May 22.	May 22
June 5	Bellevue, O.	May 22
June 11	Baltimore, Md. Adv. May 22.	May 22

SEWERS

May 24	Silver Lake, O.	May 22
May 26	Coatesville, Pa. Adv. May 15.	May 15
May 26	Detroit, Mich.	May 22
May 27	Nutley, N. J.	May 22
May 27	New York, N. Y.	May 22
May 27	Niles, Mich.	May 1
May 27	Meadville, Pa. Adv. May 15.	May 15
May 27	Nashville, Tenn.	May 15
May 29	Stratford, Ont.	May 22
June 2	Bishop, Cal.	May 15
June 2	Hibbing, Minn.	May 22
June 4	Garner, Ia.	May 15
June 4	Weston, W. Va.	May 22
June 4	Cuyahoga Falls, O.	May 22
June 4	Freehold, N. J.	May 22
June 9	Pontiac, Mich. Adv. May 22.	May 22
June 9	Stratford, Conn. Adv. May 15.	May 15
June 9	Osgood, Ont.	May 22

BRIDGES

ay 24	Cochran, Ga.	May 22
ay 26	Lisbon, O.	May 22
May 27	Harrisburg, Ark. Adv. May 8.	May 8
May 27	Arthur, Ont.	May 15
May 28	Statesboro, Ga.	May 15
May 28	Bowmanville, Ont.	May 22
May 29	Chicago, Ill.	May 22
May 29	West Union, W. Va.	May 15
May 30	Madison, W. Va.	May 15
May 30	Danville, W. Va.	May 15
June 4	Charleston, W. Va.	May 15
June 4	Swainsboro, Ga.	May 15
June 5	Stratford, Conn.	May 8
June 6	Monroe, Ga.	May 8
June 6	Danville, W. Va.	May 22
June 6	Madison, W. Va.	May 22
June 9	Montgomery, Ala. Adv. May 8.	May 8
June 16	Valdosta, Ga. Adv. May 22.	May 22

STREETS AND ROADS

May 24	St. Peter, Minn.	May 22
May 26	Pennsylvania Adv. May 8.	May 8
May 26	Stillwater, Minn.	May 15
May 26	Minneapolis, Minn.	May 15
May 26	Madison, Neb. Adv. May 15.	May 15
May 26	Ohio	May 15
May 26	Saginaw, Mich.	May 22
May 26	Minneapolis, Minn.	May 22
May 26	Braddock, Pa.	May 22
May 27	Crafton, Pa.	May 22
May 27	Jersey City, N. Y.	May 22
May 27	New York, N. Y.	May 22
May 27	St. George, S. I., N. Y.	May 22
May 27	Emporia, Kan.	May 22
May 27	Seattle, Wash.	May 15
May 27	Maryland Adv. May 15.	May 15
May 27	Preston, Minn.	May 1
May 27	Henderson, Minn.	May 8
May 27	Mahnomen, Minn.	May 8
May 27	Harrisburg, Ark. Adv. May 8.	May 8
May 27	St. Louis, Mo.	May 8
May 27	Toronto, Ont.	May 15
May 27	Chaska, Minn.	May 15
May 27	Hedrick, Ia.	May 15
May 28	Willmar, Minn.	May 8
May 28	Wisconsin	May 15
May 28	Illinois	May 15
May 28	New Jersey	May 15
May 28	Nashville, Tenn. Adv. May 1.	May 1
May 28	Milan, Mich.	May 15
May 28	Terra Haut, Ind.	May 15
May 28	Ebensburg, Pa.	May 22
May 28	Brooklyn, N. Y.	May 22
May 28	Mahnomen, Minn.	May 22
May 29	Ottawa, Ont.	May 22
May 29	Wilkes-Barre, Pa.	May 22
May 29	Pittsburgh, Pa.	May 15
May 29	Michigan	May 8
May 29	Maryland	May 15
May 29	West Union, W. Va.	May 15
May 29	Cambridge, Minn.	May 15
May 30	Evansville, Pa.	May 15
May 30	Dallas, Tex. Adv. Apr. 17 and 24.	Apr. 17
May 31	Arkansas	May 22
June 1	Michigan	May 8
June 1	Perce, Que.	May 15
June 1	Gilboa, N. Y. Adv. May 22.	May 22
June 2	St. Severe, Que.	Apr. 24
June 2	Elkins, W. Va. Adv. May 8.	May 8
June 2	Kingwood, W. Va.	May 15
June 2	Wayne, W. Va.	May 15
June 2	Indianapolis, Ind.	May 15
June 2	Lincoln, Neb.	May 15
June 2	Bury, Que.	May 15
June 2	Freeland, Pa.	May 22
June 2	Osceola, Ark.	May 22
June 2	Albert Lea, Minn.	May 22
June 3	Emmetsburg, Ia. Adv. May 22.	May 22
June 3	Worthington, Minn.	May 22
June 3	Burlington, N. J.	May 22
June 3	Minot, N. B.	May 15
June 3	Griffin, Ga.	May 8
June 3	New York, N. Y. Adv. May 8.	May 8
June 3	Blair, Neb.	May 15
June 3	Indianapolis, Ind.	May 22
June 3	Butler, Pa. Adv. May 22.	May 22
June 3	Sanford, Fla.	May 22
June 3	Fremont, Neb.	May 22
June 4	New Rockford, N. D.	May 15
June 4	Albion, Neb.	May 15
June 4	Bradford, O.	May 15
June 4	Burlington, N. J. Adv. May 22.	May 22
June 5	Metter, Ga.	May 15
June 5	Glenwood, Minn.	May 15
June 5	Seward, Neb.	May 22
June 5	Ponca, Neb.	May 22
June 5	Lyon, Neb.	May 22
June 5	Gastonia, N. C.	May 22
June 6	Red Wing, Minn.	May 22
June 6	Centersburg, O.	May 15
June 9	Austin, Minn.	May 22
June 9	Hastings, Minn.	May 22
June 10	Montivideo, Minn.	May 22
June 10	Marlington, W. Va.	May 22
June 10	Clarksville, Pa.	Apr. 3
June 11	Morris, Minn.	May 22
June 12	Brainerd, Minn.	May 22
June 12	Pittsburgh, Pa.	May 22
June 13	Hinton, W. Va.	May 22
June 13	Bemedji, Minn.	May 22
June 14	Grand Rapids, Mich.	May 22
June 16	Elk River, Minn.	May 22
June 17	Elbow Lake, Minn.	May 22
June 17	Luzerne, Minn.	May 22
June 18	Moorehead, Minn.	May 22
June 19	Little Falls, Minn.	May 22
June 19	Junction City, Kan.	May 22
June 20	Harrisonville, W. Va.	May 22
July 1	Marshall, Ark.	May 22

EXCAVATION AND DREDGING

Bids Close		See Eng. News-Record
May 26	Minneapolis, Minn.	May 22
May 28	New York, N. Y.	May 22
June 2	Beaufort, N. C. Adv. Apr. 24.	Apr. 24
June 3	Henderson, Minn.	May 15
June 3	New Castle, Pa. Adv. May 2.	May 22
June 5	Marks, Miss.	May 22
June 10	Wapello, Ia. Adv. May 22.	May 22
July 1	Edwardsville, Ill.	May 15

INDUSTRIAL WORKS

May 24	Brooklyn, N. Y.	May 8
May 28	Tebbetts, Mo.	May 15
May 28	Gardiner, Mass.	May 22
June 9	Sarasota, Fla.	May 22
June 16	New Orleans, La.	May 22
Aug. 1	Hastings, Minn.	May 15

BUILDINGS

May 21	Philadelphia, Pa.	May 22
May 26	Beloit, Kans.	May 22
May 26	Gallipolis, O.	May 1
May 26	Britt, Ia.	May 22
May 26	East Broughton, Que.	May 22
May 27	Roxbury, Mass.	May 22
May 27	Howard, R. I.	May 15
May 27	Pembina, N. D.	May 15
May 27	Brooklyn, N. Y.	May 15
May 27	Tracy's Landing, Md.	May 22
May 28	Aberdeen, Md.	May 22
May 28	Ottawa, Ont.	May 22
May 30	Medicine Hat, Alta.	May 22
June 1	Moose Lake, Minn.	May 22
June 1	Montreal, Que.	May 8
June 1	St. Cloud, Minn.	May 8
June 1	Rochester, Minn.	May 8
June 1	Faribault, Minn.	May 15
June 1	Willmar, Minn.	May 15
June 1	Chicago, Ill.	May 15
June 1	East St. Louis, Ill.	May 22
June 2	New Orleans, La.	May 22
June 2	Hibbing, Minn.	May 22
June 4	New Brunswick, N. J.	May 22
June 4	Central Islip, N. Y.	May 15
June 5	Fergus Falls, Minn.	May 22
June 10	Bessemer, Ala.	May 15
June 12	Staunton, O.	May 22
June 12	Detroit, Mich.	May 22
June 14	Hubbard, O.	May 22
June 15	Anoka, Minn.	May 8
June 17	Ossining, N. Y. Adv. May 22.	May 22
July 1	Austin, Minn.	May 22
Aug. 1	Kenosha, Wis.	May 15

FEDERAL GOVERNMENT WORK

May 26	Laboratory—Fairport, Ia.	May 1
May 26	Superstructure — Chicago, Ill. Adv. May 1.	May 1
May 26	Bridge—Washington, D. C.	May 8
May 26	Tunnel—Spec. 3879—Philadelphia, Pa.	May 8
May 26	Medical Storage Building—Spec. 3462 — Hampton Roads, Va.	May 8
May 26	Steam Distributing System—Spec. 3876—Philadelphia, Pa.	May 8
May 26	Motor Generator Sets and Switchboard—Spec. 3872—Hampton Roads, Va.	May 8
May 26	Rip Rap—Philadelphia, Pa.	May 1
May 26	Storehouse — Spec. 3842 — Charleston, S. C.	May 15
May 26	Air and Water System—Spec. 3883—Hampton Roads, Va.	May 15
May 26	Roof Decks—Spec. 3839—Charleston, W. Va.	May 15
May 26	Steel Water Tank and Tower—Spec. 3868—Hampton Roads, Va.	May 15
May 27	School—Ft. Bidwell, Cal.	May 8
May 27	Dredging—Wilmington, Del. Adv. May 1.	May 1
May 28	Jetty and Revetment—Jacksonville, Fla. Adv. May 1.	May 1
May 28	Lock and Abutment—Cincinnati, O. Adv. May 1.	May 1

Bids Close		See Eng. News-Record
May 28	Post Office—Elkhart, Ind.	May 8
May 28	Dredging — New London, Conn. Adv. May 8.	May 8
May 28	Power Plant Equipment — Spec. 3871—Cavite, P. I.	May 15
May 28	Elevator—Ketchikan, Alaska	May 15
June 2	Dam and Bridge—Sacaton, Ariz. Adv. May 1.	May 1
June 2	Buildings, Sewer, Water Mains, Etc.—Camp Travis, Tex. Adv. May 22.	May 22
June 4	Air Station—Spec. 3864—Galveston, Tex.	May 8
June 4	Bath House—Spec. 3786—Newport, R. I.	May 15
June 4	Repairing Pier Walls — Spec. 3815—Boston, Mass.	May 22
June 4	Revolving Platform—Spec. 3880—Hampton Roads, Va.	May 15
June 4	Storage Tanks—Spec. 3721 Cape May, N. J.	May 15
June 4	Fence — Spec. 3848 — Ft. Mifflin, Pa.	May 15
June 4	Roads — Spec. 3884 — Chatham, Mass.	May 15
June 4	Heating and Humidifying Apparatus—Spec. 3854—Philadelphia, Pa.	May 15
June 4	Oil Burning Equipment — Spec. 3847—Key West, Fla.	May 22
June 5	Post Office—Denton, Tex. Adv. May 15.	May 15
June 6	Post Office—Bellefourche, S. D. Adv. May 1.	May 1
June 11	Dredging — Spec. 3548 — Hingham, Mass.	May 22
June 11	Fire Protection System — Spec. 3808 — Hingham, Mass.	May 22
June 11	Power House—Spec. 3889—Montauk, N. Y.	May 22
June 11	Laundry — Spec. 3887 — Portsmouth, N. H.	May 22
June 16	Dredging — New York, N. Y.	May 22
June 19	Levee Work—St. Louis, Mo. Adv. May 22.	May 22
June 20	Boilers—Memphis, Tenn. Adv. May 22.	May 22

MISCELLANEOUS

May 27	Culverts—Warren, Minn.	May 22
May 28	Castings, etc. — Quincy, Mass.	May 22
May 29	Bituminous, Concrete — St. George, S. I., N. Y.	May 22
May 29	Fill and Bulkhead—Astoria, Ore.	May 8
May 31	Pumps—Wheeling, W. Va. Adv. May 22.	May 22
June 3	Capstans and Hoists—Albany, N. Y.	May 15
June 3	Coal Handling Equipment—Toledo, O.	May 8
June 3	Paving Bricks — Saranac Lake, N. Y. Adv. May 8.	May 8
June 5	Ice Breakers, Richmond, Que.	May 22
June 6	Flooring—Clearfield, Pa.	May 22
June 9	Flusher and Sprinkler — Lewiston, Mont.	May 22
June 12	Breakwater — Louis, P. E. I.	May 22

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., East Boston (Boston P. O.)—State Waterworks Comn., Capitol, Boston, had plans prepared for building 36 in. water main, 1800 ft. long, to supply additional water here. About $40,000. A. O. Doane, 1 Ashburton Pl., Boston, engr.

Mass., Lexington—City had plans prepared building 6000 ft. 16 in. water main. About $65,000. A. O. Doane, 1 Ashburton Pl., Boston, engr.

Mass., Milton (Boston P. O.)—State Waterworks Comn., Capitol, Boston, had plans prepared building 12 in. c. i. water main in Poplar St., West Roxbury, and under Neponset River to provide supply to Milton Twp. A. O. Doane, 1 Ashburton Pl., Boston, engr.

N. Y., Border City—See "Industrial Works."

Pa., Blairsville—See "Buildings."

Ky., Ashland—Comrs. Water Wks. Dept. receive bids about June 15 for 2,000,000 gal. filtration plant, electric driven centrifugal pumps and miscellaneous appurtenances and connections. About $90,000. Noted Feb. 13.

Ia., Ft. Dodge—See "Streets and Roads."

Kan., St. John—City election June 10, to vote on $50,000 bonds to build and extend water works and electric light plant. A. O. Seevers, city clk.

Mont., Denton—City election May 29, to vote on $45,000 bonds to build concrete reservoir and lay 17,500 ft. wood and 8000 ft. c. i. pipe. W. B. Saunders, Helene, engr.

Utah, Price—City plans to remodel present distribution system and waterworks, build 25 mi. pipe line from Calton to here. About $150,000. E. K. Olson and W. W. Jones, Price, engrs.

Utah, Provo—City voted $175,000 bonds to improve waterworks system and $75,000 bonds to pave streets.

Ariz., Mesa—See "Industrial Works."

Ariz., Phoenix—City had plans prepared by H. Phillips, consult. engr., International Life Bldg., St. Louis, Mo., for gravity water supply from Verde River, to include filtration system, 42 in. pipe line and 25,000,000 gal. concrete reservoir. About $1,350,000. Noted Mar. 20.

Cal., Arcadia—City plans election to vote on $150,000 bonds to increase water supply and extend distributing system. E. Grimes, clk. Engineer not selected.

Cal., Blythe—City having plans prepared by Olmstead & Gillelen, engrs., 1112 Hollingsworth Bldg., Los Angeles, for water system. About $36,000. Noted Mar. 20.

Cal., East San Diego (San Diego P. O.)—City having plans prepared by Olmsted & Gillelen, engrs., 1112 Hollingsworth Bldg., Los Angeles, for water and sewer systems. About $400,000. Bonds will be voted for project.

Cal., Huntington Beach—City retained Olmsted & Gillelen, engrs., 1112 Hollingsworth Bldg., Los Angeles, to prepare estimates and report on advisability of building water system.

BIDS DESIRED

N. Y., Poughkeepsie—Until June 4, by State Hospital Comn., Capitol, Albany, for additions and alterations to water supply system to include additional filter, changing water main, building reservoir and 20 x 25 pump house, etc., at Hudson River State Hospital, here. About $30,000; advertised in this issue. Noted Feb. 20.

N. J., Freehold—See "Buildings."

Md., Baltimore—Until June 11, at office of City Register, City Hall, furnishing and erecting one 25 and one 15 k.w. turbo-generator sets and switchboard for Mt. Royal Pumping Sta. W. E. Lee, water engr.; advertised in this issue.

O., Bellevue—Until June 5, by Dir. Pub. Serv., building (a) impounding reservoir involving 100,000 cu.yd. earth excav. and embankments, 20 x 26 ft. low service pumping station, between 1500 and 3000 ft. 18 in. vitr. tile pipe; (b) furnishing and erecting 2 gas engine driven centrifugal pumping units, each having 5000 gal. per minute capacity; (c) furnishing and delivering chlorinator for disinfecting water supply. W. G. Clark, 1047 Spitzer Bldg., Toledo, consult. engr.; advertised in this issue.

Ind., Whiting—Until June 2, by Bd. Pub. Wks. building water system: (A) mechanical water filtration plant, gravity type, involving 4,000,000 gal. per day capacity, including aerating basin, coagulating basin, filters, reservoir, head house; making connections with city mains and erection of equipment specified in (B). (B) one 5,000,000 gal. centrifugal pump, two 5,000,000 gal. centrifugal pumps, one 3,000,000 gal. centrifugal pump, two 3,000,000 gal. centrifugal pumps, 1 washwater pump, and 1 switchboard, and equipment. Work under (A) includes 6,000 cu.yd. excav. and 440,000 lbs. reinforcing steel. S. A. Greeley, 39 West Adams St., Chicago, engr.

Minn., Albert Lea—Until June 3, by C. J. Dudley, clk., building 1,500,000 gal. rein.-con. circular reservoir, 125,000 gal. rein.-con. tank and tower, 800 gal. per minute, centrifugal pump direct connected to 15 h.p. steam turbine, piping, valves, water mains, etc. About $50,000. J. H. A. Brantz, 506 Chamber of Commerce Bldg., St. Paul, engr. Former bids rejected. Noted May 8.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Gilboa—Bd. Water Supply, Municipal Bldg., New York City, received lowest 3 bids building dam here, same being part of Schoharie Watershed development for New York City water supply, from Winston & Co., 290 Bway., New York City, $7,200,000; Hardway Constr. Co., $7,443,000; P. J. McGovern, 637 West 50th St., New York City, $7,600,000. Noted Apr. 17.

★**Pa., Pottsville**—Girard Water Co., Thompson Bldg., let contract building earth fill dam, 870 ft. long, 235 ft. wide at base, with concrete gate tower, bridge, spillway and cut-off walls, to impound waters on Whiskey Mill Creek, to Central Constr. Corp., Commonwealth Trust Bldg., Harrisburg, $170,551, plus 10%. Work involves 5400 cu.yd. earth and 2200 cu.yd. rock excav., 2513 cu.yd. concrete, 526 tons c.i. pipe, 522 tons c.i. specials, sluice gate, etc. Noted Apr. 17.

★**O., Akron**—City let contract furnishing and laying 2.3 mi. 48 in. lock bar steel pipe and 0.1 mi. 36 in. c.i. pipe, to T. E. McShaffrey Constr. Co., 173 South Forge St. Noted Apr. 3.

★**O., Bryan**—Trustees Pub. Affairs let contract for 1,000,000 gal. concrete reservoir and pump house, to Toledo Residence Constr. Co., 322 Nasby Bldg., Toledo, $23,700; 14,500 ft. 4, 6 and 8 in. c.i. water mains, to Gessner Co., 616 Nicholas Bldg., Toledo, $24,990; sinking two 10-in. wells, to R. E. Kersey, South Bend, Ind., $6.75 per ft. Noted May 1.

★**O., Salem**—City let contract building additional filtration beds, to Jones Constr. Co., Salem, $30,800.

★**O., Silver Lake**—City let contract furnishing and laying 17,000 ft. 6-12 in. c.i. water mains, to Gangl Constr. Co., Akron. About $28,000.

Wash., Seattle—Bd. Pub. Wks. received bids May 9, laying 3710 ft. 8 in. c. i. water mains on 60th Ave., S. W., et al, from Scalzo & Co., Seattle, $12,970; S. A. Moceri, 1212 South M St., $13,109; Florito Bros., Seattle, $13,545.

Cal., Manhattan Beach—See "Streets and Roads."

Sewers

PROPOSED WORK

Mass., Reading—Metropolitan Water & Sewer Bd., Ashburton Pl., Boston, has been authorized to build outlet sewer to connect city system with metropolitan system. About $280,000. A. O. Doane, 1 Ashburton Pl., Boston, engr. Noted Feb. 20.

Pa., Blairsville—See "Buildings."

Mich., Detroit—City soon lets contract furnishing all labor and materials (except iron manhole rings and covers) which will be furnished by city, building and finishing complete, together with backfilling for lateral sewers Nos. 3048, 3051, 3052, 3503, 3129, 3130, 3131, 3132, 3133, 3135, 3136, 3137, 3138, 3139 and 3140, 8-10-in. vitr. crock sewers with brick manholes, etc. About $52,000.

Mich., Rochester—City retained L. A. Bouley Co., engr., 1250 Nicholas Bldg., Toledo, O., to make surveys and prepare plans for 12-15 mi. sewerage system.

Ia., Pochahontas—City soon receives bids building sanitary sewer, septic tank and beds in practically all streets in city. About $37,000. C. H. Currie, Webster City, engr.

Kan., Junction City—City soon lets contract extending sanitary sewerage system. Burns & McDonnell, Inter-State Bldg., Kansas City, Mo., engrs.

Tex., Ft. Worth—City voted $1,890,000 bonds to build sewage disposal plant and extend and repair sewer and water mains.

Idaho, Twin Falls—See "Streets and Roads."

Wash., Seattle—Bd. Pub. Wks. rejected bids received May 2, building sewer in 44th Ave. S. W., et al. Noted May 8.

Cal., East San Diego (San Diego P. O.)—See "Waterworks."

Cal., Holtville—City having plans prepared building sewers. W. J. Bathrick, city engr.

BIDS DESIRED

N. Y., New York—Until May 27, by H. Bruckner, pres. Bronx Boro., building sewers and appurtenances in East 180th St. between 3rd and Monterey Aves.; Holland Ave. between Rhinelander and Hunt Aves.; Hunt Ave. between Holland and Bronxdale Aves.; Bronxdale Ave. between Hunt Ave. and Bronx Park E.; between Bronxdale Ave. and existing drain north of Waring

Sewers (Continued)

Ave.; Pelham Parkway N., between Bronx Park E. and Boston Rd.; Olinville Ave. between Pelham Parkway N. and summit north of Mace Ave.; Boston Rd. between Pelham Parkway N. and White Plains Rd.; White Plains Rd. between Boston Rd. and Waring Ave. and across White Plains Rd. at Waring Ave.; White Plains Rd. between Waring Ave. and summit north of Mace Ave.

N. J., Nutley—Until May 27, by city, building vitr. sanitary sewers in various streets, involving 10,700 ft. trenching, various depths, 2000 ft. 6 in. and 8700 ft. 8 in. sewer and 35 manholes.

Pa., Butler—See "Streets and Roads."

W. Va., Weston—Until June 14, by State Bd. Control, Charleston, building sewage pumping station, equipped with 2 electric motors, 2 centrifugal pumps and automatic control equipment, also sewage sedimentation tank, sprinkling filter, sludge bed and chlorinating plant for Weston State Hospital, here. Noted May 30, 1918.

O., Cuyahoga Falls—Until June 4, by F. O. Vail, village clk., building sanitary sewers in Chestnut St. from Front St. to Mereline Ave.; also building sewers, grading, curbing and paving Chestnut St. from Front to 7th Sts.

O., Silver Lake—Until May 24, by E. A. Tewksburg, clk., building storm water and sanitary sewers in Dover Rd. from Highland Dr. to Graham Rd.; Highland Dr. from Silver Lake Blvd. to Dover Rd.; Silver Lake Blvd. throughout its entire length. Former bids rejected. C. W. Courtney, 509 Leader-News Bldg., Cleveland, engr.

Mich., Detroit—Until May 26, (change of date) by Dept. Pub. Wks., furnishing all labor and material (except iron manhole rings and covers) and building and finishing complete together with back-filling 852 ft. Harper Ave. Pub. Sewer, Sect. "A" in Harper and Gratiot Aves. from Gratiot Ave. to north line Bessmore Ave., 399 ft. Sect. "B" in Gratiot Ave. from Bessmore Ave. to point 91 ft. north of north line of Georgia Ave. C. W. Hubbell, city engr. Noted May 15.

Mich., Pontiac—Until June 9, by C. W. Ham, city clk., building 2052 lin.ft. outfall sewer, grit chamber, 2 story, settling tanks, trickling filters, secondary tanks, sludge bed and appurtenances, involving 34,710 cu.yd. excav., 4078 cu.yd. rein.-con., 15,700 cu.yd. filter stone and 35 tons c. i. piping. C. W. Hubbell, 2348 Penobscot Bldg., Detroit, engrs.; advertised in this issue. Noted Apr. 24.

Ia., Emmetsburg — See "Streets and Roads."

Ont., Osgood—Until June 9, by Town, building 27,624 ft. Greys Creek Extension Drain and 13,000 ft. Blanchfield Drain. Work involves 25 acres clearing and grubbing, 48,650 cu.yd. earth and 1350 cu.yd. rock trenching, etc. About $20,000. Nagwood & Stidwill, Cornwall, engrs.

Ont., Stratford—Until May 29, by A. B. Manson, city engr., building concrete drain, involving 4400 ft. 42 in. and 2000 ft. 36 in. circular pipe. Alternate bids will be received for concrete tile and segmental block.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Binghamton**—Bd. Contr. & Supply let contract building 9 lengths of sewer in various parts of city, to C. W. Rose, $14,307.

N. Y., Brooklyn—E. Riegelmann, boro. pres., received lowest 3 bids May 14, building sewers in (a) West 7th St. from Bay Pkway. to Ave. O; (b) Skillman Ave.; (c) 8th St. from Ave. K to I; (d) 91st St. from Ridge Blvd. to 3rd Ave., from Murphy Bros., 30 East 42nd St., New York City, (a) .7889%; (b) 1.04%; P. Tomasetti, (a) .8888%; (c) .95%; (d) .8889%; C. Petraca, (a) .8989%; (b) 1.0389%; (d) .8998%; P. J. Donlin, (b) 1.07%; J. H. Johnson, (c) .97%; (d) 1.02%; F. L. Paino, 67 Bay 47th St., (c) .99%; (d) .99%; A. Baino, 2622 Bath Ave., (c) .8484%.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contract furnishing all labor and material for building sewers in Rutland Rd. from Remsen to Nostrand Aves., to Fenlack Constr. Co., Brooklyn, $242,223. Noted May 15.

★**Mich., Detroit**—City let contracts to R. D. Baker, 1415 Penobscot Bldg., building lateral sewer No. 3062, cost, $3666, No. 3116, $10,201, No. 3117, $3693, No. 3118, $3574, No. 3123, $2100, No. 3126, $8800 and No. 3127, $3450; Western Constr. Co., 1208 Ford Bldg., No. 3119, $3467, No. 3125, $9242; W. Blanck & Co., 330 Longfellow Ave., No. 3120, $18,103, No. 3122, $22,000; Walker & Teeteart, Windsor, Ont., No. 3124, $1170. Noted May 15.

★**Mich., Detroit**—Dept. Pub. Wks. let contracts to J. Connelly Constr. Co., Dime Bank Bldg., for Seven Mile Rd. Pub. Sewer from Woodward to Yakama Aves., 4781 ft. long, cost $276,300; to Walbridge Aldinger Co., 2356 Penobscot Bldg., Sects. 1 and 2 Lonyo Rd. Pub. Sewer, $1,430,000. Noted May 15 and 22.

★**Mich., Detroit**—City let contract building vitr. crock sewers in Frischkorns Tireman Park subdivision, to Walker & Teeteart, Penobscot Bldg., $26,499. Noted May 1.

★**Ill., Chicago**—J. McGillen, clk. sanitary dist., Room 700, 910 South Michigan Ave., let contracts building Des Plaines River sewage treatment works, Div. A, to Leyden-Ortseifen Co., 53 West Jackson Blvd., $384,281; Div. P, to W. A. Jackson Co., 37 West Van Buren St., $22,795; Div. W, to Builders' Iron Fdry., 209 South La Salle St., $12,760. Noted May 8.

Wis., Milwaukee—Sewerage Comn. received lowest bid, building 1800 ft. rein.-con. sewer in Menomonee Valley, from Mid-Western Co., 140 South Dearborn St., Chicago, $86,100.

★**Ia., Alta**—City let contract building sewage disposal plant, to Ward & Weighton, 516 Davidson Bldg., Sioux City, $12,740.

★**Minn., Duluth**—See "Streets & Roads."

★**Minn., Duluth**—City let contract building sewerage system and outlet sewer for various streets in Fairmont Addition, 11,768 ft. long, to Pastoret Const. Co., 510 Lyceum Bldg., $44,782. Noted Apr. 3.

Minn., St. Paul—H. W. Austin, purch. agt., City Hall, received bids building storm water sewers in Fairview, Wheeler, Summit, McAlester and Snelling Aves., from W. Danforth, 707 Germania Life Bldg., $97,000; O'Neill & Preston, 60 East 6th St., $104,500.

★**Neb., Humphrey**—City let contract building 3¼ mi. sanitary sewer, 8-12 in. vitr. pipe, to A. Dobson, 3140 Sheridan Blvd., Lincoln, $24,950. Noted May 1.

★**Neb., Omaha**—City let contract building 10,485 ft. 8-30 in. vitr. sewers in L and M Sts., from 38th to 41st Sts., to Katz Constr. Co., 409 Brandeis Theater Bldg., $18,348.

★**Mont., Butte**—City let contract building 48 in. segmental block storm sewer in Dakota St., to P. Stamsos, 616 Nevada Ave., $5409; rein.-con. storm sewer in Henry Ave., to G. L. Gagnon, 41 Owsley Blk., $5290.

★**Mo., Rockport**—City let contract building sewers to Katz Constr. Co., 620 Brandeis Bldg., Omaha, Neb. About $20,000.

★**Tex., Dallas**—City let contract building concrete storm sewer in Fairmount St. from Mellborn to Wolf and from Fairmount to Maple Sts., to Klein Bros. Co., Juniun and Walton Sts., $20,757. Noted May 1.

★**Ariz., Flagstaff**—City let contract building sewerage system, using cement pipe, to McLean & Walsh, El Segundo, $82,396. Noted May 15.

Wash., Camas—City received bids building trunk line sewer from Washington Slough to Hill Dist., (a) concrete, (b) vitr., from W. D. Marshbank, Camas, (a) $19,071, (b) $19,926; J. Keating, Portland, (a) and (b) each $24,098; Jacobsen-Jensen Co., 407 Stanton St., Portland, (a) $21,074, (b) $22,107.

Wash., Seattle—Bd. Pub. Wks. received bids May 9 building Firland Sanitorium Sewer, involving 10,710 ft. 8-in. pipe, (a) clay (b) concrete, from Coluccio & Niblett, (a) $29,372, (b) $29,211; J. Paduano, 646 West 51st St., (a) and (b) each $29,384; J. Di Julio & Co., Seattle, (a) and (b), each $29,929.

★**Cal., Los Angeles**—City let contract building cement sewers in Long Beach Ave. et al, to B. D. Zaich, 2218 Sheridan St., $15,885. Noted May 15.

Cal., Palo Alto—City received bids building sewerage system, from J. Heafey, 22 Mess Ave., Oakland, $23,477; F. Meyers, Oakland, $24,661; R. H. Downer, Berkeley, $25,323. Work involves 14,419 ft. 6-14 in. pipe, 48 manholes and 4597 ft. 14 in. outfall sewer on concrete base.

Bridges

PROPOSED WORK

Mass., Springfield—Hampden Co. plans to build new steel and rein.-con. bridge on Berkshire St. Cost to exceed $10,000.

N. Y., Leroy—City rejected estimates submitted by J. P. Wells, engr., Cutler Bldg., Rochester, building bridge over Oatka River. Estimate of $47,890 for concrete arch bridge and $46,000 for steel girder did not include necessary $4000 for right of way. Town may construct foot bridge. Address D. J. O'Shea, Leroy. Noted Apr. 24.

S. C., Beaufort—Comrs. Beaufort Co. had tentative plans prepared for 3700 ft. bridge, 20 ft. wide, over Beaufort River, probably concrete. About $160,000.

Ill., Belleville—R. Millikan, engr., Central Bldg., East St. Louis, receives bids in September, building 2 bridges and approaches, 100 ft. long, 40 ft. wide (1 contract), also 1 bridge and approach, across Little Mud Creek, about 15 mi. east of East St. Louis.

Ia., Denison—Bd. Supervs. Crawford Co. rejected bids received Apr. 30, building one 18 x 90 ft. rainbow arch bridge, involving 448 cu.yd. rein.-con., 13,600 lbs. structural and 24,300 lbs. reinforcing steel and 1536 lin.ft. wood piling. About $16,000. Bids will probably be readvertised.

Kan., Lawrence — See "Streets and Roads."

Cal., Fresno—See "Streets and Roads."

BIDS DESIRED

W. Va., Danville—Until June 6, by Comrs. Boone Co. (Madison) building steel highway bridge over Little Coal River here, two 126 ft. spans, 16 ft. wide. About $15,000. S. E. Bradley, Madison, engr. Noted May 15.

W. Va., Madison—Until June 6, by Comrs. Boone Co. (Madison) building steel highway bridge over Coal River here, two 105 ft. spans, 16 ft. wide. About $11,000. S. E. Bradley, Madison, engr. Noted May 15.

Ga., Cochran—Until May 24, by Comrs. Bleckley Co., building 3 bridges over Gum Swamp, one to consist of twelve 30 ft. arches, involving 435 cu.yd. Class "A" concrete, 235 cu.yd. Class "B" concrete and 59,000 lbs. reinforcing steel; one 26 ft. bridge, 25 cu.yd. Class "A" concrete, 42 cu. yd. Class "B" concrete and 6788 lbs. reinforcing steel; one 22 ft. bridge, 19 cu.yd. Class "A" concrete, 41 cu.yd. Class "B" concrete and 5790 lbs. reinforcing steel. Federal Government will appropriate toward cost. Garrett & Slack, Montgomery, Ala., engrs.

Ga., Valdosta—Until June 16, by Comrs. Lowndes Co. building bridge over Withlacoochee River, about 5 mi. from here. Work involves 40 cu.yd. dry excav., 155 cu.yd. wet excav., 1240 lin.ft. wood piles under foundation piers, 880 lin.ft. creosoted piles under foundation piers, 3720 lin.ft. 14 x 14 in. rein.-con. piles, 812 lin.ft. 40 x 10 in. rein.-con. piles, 904 cu.yd. Class A concrete, 463 cu.yd. Class B concrete and 94,520 lbs. reinforcing steel, etc. B. G. Lastinger, clk. of comr. J. B. McCrary Co., Valdosta, engrs.; advertised in this issue. Noted Apr. 24.

O., Lisbon—Until May 26, by State Highway Comn., Columbus, building 131 ft. bridge, 20 ft. wide, over west fork of Beaver Creek, on Sect. E-1 of Lisbon-Canton Southern Rd., I. C. H. No. 368, in Hanover Twp., Columbiana Co. About $13,600. C. Cowen, state highway comr.

Ill., Chicago—Until May 29, by C. R. Francis, comr. pub. wks., 406 City Hall, building superstructure of double decked, trunnion bascule bridge over Chicago River on Wells St., to carry elevated railroad on upper deck and trolley cars and street traffic on lower deck. About $350,000. T. G. Pielfeldt, city bridge engr.

Minn., St. Peter — See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of Contract)

N. J., Brielle—Comrs. Ocean Co., (Toms River) and Monmouth Co. (Freehold) let contract replanking and replacing stringers on drawbridge over Manasquan River between here and Point Pleasant, 1886 ft. long, to F. Brower, Freehold, $16,049.

★**Pa., Pine Grove**—Comrs. Schuylkill Co. (Pottsville) let contract building concrete bridge over Swatara Creek, here, to Whittaker & Diehl, Union Trust Bldg., Harrisburg, $17,876. Noted Apr. 17.

Bridges (continued)

★**Pa., Scranton**—City let contract improving and repairing Lackawanna Ave. bridge, to Anthracite Bridge Co., Mears Bldg., $21,147. Cost will be borne equally by city and Scranton Ry., 284 Lackawanna Ave. Noted May 1.

★**O., Akron**—Comrs. Summit Co. let contract building North Hill Viaduct, rein.-con., 2790 ft. long, consisting of 16 arch spans from 116-191 ft. long, 12 short girder spans, 52 ft. roadway and two 10 ft. sidewalks, to J. O. Hayworth, Chicago, $1,227,850. Noted Apr. 10.

★**Ia., Boone**—Bd. Supervs. Boone Co. let contracts, to N. E. Marsh & Son, Des Moines, building one 18 x 85 ft. arch bridge and one 16 x 18 ft. concrete slab bridge, cost, $11,198; Witmer Co., Des Moines, 2 concrete box culverts, 2 concrete slab

★**Wis., Oshkosh**—Bd. Pub. Wks. let contract building 470 ft. bridge over Fox River on Oregon and Jackson Sts., to A. Green Constr. Co., Green Bay. Noted Apr. 10.

★**Ia., Charlton**—Bd. Supervs. Lucas Co. let contract building 18 x 60 ft. pony truss bridge, concrete floor and abutments, 16 x 32 ft. I-beam, concrete floor and abutments and one I-beam bridge, with three 18 x 18 ft. spans, to Pittsburgh-Des Moines Steel Co., 4th St. south of Tuttle St., Des Moines, $14,500. Work involves 419 cu.yd. rein.-con., 2304 lin.ft. wooden piling, 23¾ tons structural and 14½ tons reinforcing steel. Noted May 1.

★**Ia., Denison**—Bd. Supervs. Crawford Co. let contracts, to Deloit Bridge Co., Denison, building 7 concrete box culverts, cost, $4705; to Pickus Eng. & Constr. Co., 532 Davidson Bldg., Sioux City, 1 concrete box culvert, one 18 x 90 ft. truss bridge, concrete floor and abutments, $16,350; to Iowa Bridge Co., 712 Hubbell Bldg., Des Moines, one 18 x 90 ft. pony truss bridge concrete floor and abutments, $12,960.

★**Ia., Newton**—Bd. Supervs. Jasper Co. let contract, to A. Phelps & Son, Knoxville, building 3 pony truss bridge, concrete floor and abutments, cost, $19,270; M. M. Stark & Co., 1215 Mulberry St., Des Moines, 3 I beam bridges, concrete floors and abutments, $10,130. Work involves 8702 cu.yd. rein.-con., 49 tons structural and 28 tons reinforcing steel.

★**Tex., Dallas**—City let contract building rein.-con. bridge over Turtle Creek, on Fairmont St., to Klein Bros. Co., Junius and Walton Sts., $29,120. Noted May 1.

★**Wash., Orting**—Comrs. Pierce Co. let contract building 180 ft. Baltimore truss bridge, concrete piers and trestle approaches, near here, to D. W. Rutherford, Municipal Dock, Tacoma, $24,200. Noted May 8.

★**Wash., Spokane**—Comrs. Spokane Co. received lowest 3 bids building concrete bridge over Latah Creek, 2½ mi. west of here, from G. Groschoff, 1604 Main Ave., $8900; C. L. Graves, 2108 Montgomery St., $11,900; C. W. McClung, $12,000.

Que., St. Croix—Lotbiniere Co. received bids building steel and concrete bridge between St. Edouard and St. Emelie, from U. Ouellette, Lachine, $34,100, H. Paris, Portierville, $35,000, C. Laroche, Lotbiniere, $37,000. Noted May 1.

★**Ont., Ottawa**—Dept. Pub. Wks., Ottawa, let contract building steel highway bridge over Ottawa River between here and Hull, Que., to Dominion Bridge Co., Ltd., Dominion St., Lachine. About $110,000. Noted Feb. 20.

Reinforced Concrete

PROPOSED WORK

Mich., Detroit—See "Miscellaneous."

Kan., Lawrence—See "Streets and Roads."

Cal., El Centro—See "Industrial Works."

BIDS DESIRED

Ga., Cochran—See "Bridges."

Ill., East St. Louis—See "Buildings."

Minn., Albert Lea—See "Waterworks."

Minn., Hibbing—See "Buildings."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ill., Chicago**—See "Industrial Works."

★**Ia., Charlton**—See "Bridges."

★**Ia., Denison**—See "Bridges."

Cal., Quincy—See "Buildings."

Que., St. Croix—See "Bridges."

Streets and Roads

PROPOSED WORK

Mass., Northampton—J. L. Fowler, supt. streets, soon receives bids for 31,000 sq.yd. Springfield grit mixture pavement and 50,000 sq.yd. asphalt. Noted May 1.

Conn., Norfolk—Town appropriated $26,000 for constructing asphalt top on Hall Meadow Highway.

New Jersey—State Highway Comrs., Broad St. Bank Bldg., Trenton, plan to pave section Highway Route No. 8 between Pequannock and Butler.

Pa., Ebensburg — West Carroll Twp., Cambria Co., election June 10 to vote on $65,000 bonds to pay township's share of county aid road from Carrolltown to Bakerton, and Sproul route to Spangler Boro.

W. Va., Berkeley Springs—Morgan Co. plans election soon to vote on $500,000 bonds to pave 30 mi. and grade 46 mi. road. C. A. Rathrock, Berkeley Springs, engr.

W. Va., Elkins—Comrs. Randolph Co. soon receive bids improving 1.92 mi. Street Car Rd., 22 ft. wide, involving 18,000 cu.yd. grading, etc. About $17,000. F. A. Parsons, Elkins, engr.

W. Va., Lewisburg—Comrs. Greenbrier Co. plan to build 2.75 mi. James River and Kanawha Turnpike, surfacing 9 and 16 ft. wide, involving 19,200 sq. yd. penetration macadam, etc. About $30,000. F. K. Rader, Lewisburg, engr.

W. Va., Martinsburg—Comrs. Berkley Co. had plans prepared surfacing 61,600 sq.yd. of macadam, with local stone. About $18,000. J. W. Sperow, Martinsburg, engr.

W. Va., Morgantown—Comrs. Monongalia Co. plan to build 12 mi. concrete road, 16 ft. wide, and 7 mi. concrete road, 98 ft. wide in Grant Dist., involving 69,000 cu.yd. grading, etc. Total cost, $500,000. Election soon to vote on $300,000 bonds for project; balance to be raised by levy. L. M. Cox, Morgantown, engr.

W. Va., Moundsville — Marshall Co., Washington Dist., plans election soon to vote on $200,000 bonds to build main roads, 16 ft. wide; Benwood Moundsville Rd. will be first to be improved. S. H. Bonar, Moundsville, engr.

W. Va., Parkersburg—City voted $300,000 bonds to pave, build sidewalks, curbs and sewers in various streets. Noted Mar. 13.

W. Va., Parkersburg—Comrs. Wood Co. soon receive bids building 1½ mi. Parkersburg-Elizabeth Rd. and 3 mi. Northwestern Turnpike, concrete, about $36,000 and $56,000 respectively. Burdett & Woodyard, Parkersburg, engrs. Noted May 15.

W. Va., Princeton—Comrs. Mercer Co. soon receive bids building 6 mi. Princeton-Flat Top Rd., waterbound macadam. About $54,000. K. E. Kiankle, co. engr.

W. Va., Wayne—Comrs. Wayne Co. soon receive bids building 2 mi. road between Kenova and Wayne, vitr. brick. About $60,000. J. D. French, Ceredo, engr.

W. Va., Wellsburg—Comrs. Brooke Co. receive bids about June 15, grading, draining and surfacing 1 mi. Wellsburg-Wheeling Rd., 16 ft. wide, concrete and macadam. Estimate cost $30,000. C. S. Donaldson, Wellsburg, engr.

W. Va., Weston—Lewis Co., Hacker Creek Dist., plans election soon to vote on $300,000 bonds to build roads, 26 ft. wide, W. K. Spaur, Weston, engr.

S. C., Aiken—Comrs. Aiken Co. plan to re-locate, grade drain, and surface with sand clay, 23 mi. Natl. Highway Rd. from here to Mouelta, 20 ft. wide. About $50,000. J. R. Pennell, Columbia, state highway engr.

S. C., Camden—Comrs. Kershaw Co. plan to re-locate, drain and surface 2 mi. road from Columbia to Aiken and from Wateree river bridge to city limits of Camden, 20 ft. wide. About $20,000. J. R. Pennell, Columbia, state highway engr.

S. C., Chesterfield—Comrs. Chesterfield Co. plan to re-locate, grade, drain and surface with some temporary material, 14 mi. road from here to Pageland, 20 ft. wide, cost, $30,000; 5 mi. road from Cheraw to here, 20 ft. wide, $16,000. J. R. Pennell, Columbia, state highway engr.

S. C., Dillon—Comrs. Dillon Co. plan to re-locate, grade, drain and surface 40 mi. Little Rock-Bennettsville Rd. via Dillon, 20 ft. wide. About $80,000. J. R. Pennell, Columbia, state highway engr.

S. C., Florence—Comrs. Florence Co. plan to re-locate, grade, drain and surface 2 mi. Dargan St. extension to Coles Cross Rd., 16 or 20 ft. wide. About $43,084. J. R. Pennell, Columbia, state highway engr.

S. C., Georgetown—Comrs. Georgetown Co. plan to re-locate, grade, drain and sand clay surface 20 mi. road from here to Andrews, 20 ft. wide. About $33,000. J. R. Pennell, Columbia, state highway engr.

S. C., Hampton—Comrs. Hampton Co. plan to re-locate, drain, grade and surface with sand clay, 22 mi. road from Brunson to Yemassee, 20 ft. wide. Cost, $44,000; 18 mi. road from Brunson to Jasper Co. line, via Estill, 20 ft. wide, $36,000. J. R. Pennell, Columbia, state highway engr.

S. C., Lauren—Comrs. Lauren Co. plan to re-locate, grade, drain and surface with top soil, 25 mi. Spartanburg-Lauren-Greenwood Highway, from Enoree to Greenwood Co. line section, 20 ft. wide, cost, $100,000; 18 mi. Predmont Highway from here to Fountain Inn, 20 ft. wide. About $50,000. J. R. Pennell, Columbia, state highway engr.

S. C., Lexington—Comrs. Lexington Co. plan to re-locate, grade, drain and sand clay surface, 29.2 mi. Washington-Atlanta Highway, from Brockland to Saluda Co. line, 20 ft. wide. About $40,822. J. R. Pennell, Columbia, state highway engr.

S. C., Manning—Comrs. Clarendon Co. plan to re-locate, grade, drain and sand clay surface 9 mi. Manning-Sumter Highway, from here to Sumter Co. line section, 20 ft. wide. About $31,538. J. R. Pennell, Columbia, state highway engr.

S. C., Spartanburg—Comrs. Spartanburg Co. plan to re-locate, grade, drain and surface with asphaltic concrete, 1.9 mi. road from here to Union via Cedar Springs, 16 ft. wide, $55,193. J. R. Pennell, Columbia, state highway engr.

S. C., Union—Comrs. Union Co. plan to re-locate, grade, drain and surface 14 mi. roads from here to Lockhart, 20 ft. wide. About $30,000. J. R. Pennell, Columbia, state highway engr.

S. C., Walhalla—Comrs. Oconee Co. plan to re-locate, grade, drain and surface 10 mi. roads from here toward Russell, Ga., to meet Federal Forest Reserve Rd. from Russell, 20 ft. wide. About $20,000. J. R. Pennell, Columbia, state highway engr.

Ga., Athens—Clarke Co. election June 11 to vote on $250,000 bonds to build roads. Federal government will appropriate like amount if election carries.

Ga., Newnan—Coweta Co. voted $500,000 bonds to build roads.

Ga., Sylvester—Worth Co. election June 25 to vote on $400,000 bonds to build roads.

Fla., Jacksonville—Okeechobee Co. voted $300,000 bonds to build and improve roads. Noted Apr. 24.

Fla., Quincy—City voted $50,000 bonds to pave various streets.

Ala., Birmingham—Bd. Revenue Jefferson Co. instructed S. R. Batson, co. engr., to prepare plans for 36 mi. trunk line highways to be permanently paved with concrete or other material on concrete base. About $600,000. Federal Government and State will appropriate toward project.

La., Covington—St. Tammany Parish voted $750,000 bonds to build roads.

Tenn., Murfreesboro—City having plans prepared paving West Main St., involving 15,000 sq.yd. asphaltic concrete. G. B. Howard & Co., 150 4th Ave., Nashville, engrs.

O., Mt. Gilead—Village Council soon lets contract grading, curbing and paving Iberia St., brick on concrete base. T. E. Buck, Mt. Gilead, engr.

O., Toledo—City receives bids about July 1, grading, draining, curbing and paving 2581 ft. Oakdale Ave. from Oak St. to East Bway., 26 ft. wide, involving 5012 cu.yd. earth excav., estimated cost $35,724; 4190 ft. Hudson St. from Lagrange St. to Stickney Ave., 24 ft. wide, 7172 cu.yd. earth excav., $49,428; 1176 ft. Fremont St. from Wheeling to end of street, 24 ft. wide, 2404 cu.yd. earth excav., $13,778. Bids will be received on all types of pavement. H. C. McClure, city engr.

Mich., Caro—Comrs. Tuscola Co. plan to pave portions of Alma and Frank Sts., concrete. About $38,000. R. W. Roberts, 201 Schirmer Bldg., Saginaw, engr.

Mich., Davison — City plans to pave three blocks Main St., 2400 ft. long, 40 ft. wide, concrete. About $22,000. R. W. Roberts, 201 Schirmer Bldg., Saginaw, engr.

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving with asphaltic concrete on concrete foundation, Amherst or Medina curb, Maxwell Ave. from Kellogg to Harper Ave., 24 ft. wide, $12,200; Garland Ave. from Canfield to Shoemaker Aves., $58,780; Hurlbut Ave. from Warren to Shoemaker Aves., $38,390; Parkdale Terrace from McGraw to Warren Aves., $7450;

Streets and Roads (continued)

Colfax Ave. from Warren to Milford Aves., $20,700; Kulick Ave. from Junction Ave. to Pere Marquette R.R., $19,530; Kopernick Ave. from Lockwood Ave. to Pere Marquette R.R., $29,330; Konkel Ave. from Junction to Wesson Aves., $16,480, all 26 ft. wide.

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving with asphaltic concrete on concrete base, Amherst or Medina curb, Garfield St. from Chene St. to Mt. Elliott Ave., cost, $57,100, Apple St. from St. John to Michigan Aves., $8840, Minnesota Ave. from Woodward Ave. to John R St., $24,100, Grinell Ave. from Evelyn to French Sts., $43,760, Moran St. from Milwaukee Ave. to Griffin St., $7470, St. Clair Ave. from Warren to Shoemaker Aves., $31,440, all 26 ft. wide, also alley between Trumbull Lincoln, Calumet and Canfield Aves., 18 ft. wide, $1630 and alley between 12th, 10th, Howard and Abbott Sts., brick on concrete base, $1210.

Mich., Detroit—Dept. Pub. Wks. soon lets contract paving with asphaltic concrete on 6-in. concrete foundation, curbing with Berea, Amherst or Medina, Cosper Ave. from Ferndale to Dix Aves., Carter Ave. from Dexter Blvd. to Quincy Ave., Greeley Pl. from Westminster to Caniff Aves., Honorah Ave. from Ferndale to Dix Aves., Longworth Ave. from Springwells to Elsmere Aves., Norman Ave. from Ferndale to Woodmere Aves., Olivet Ave. from Springwells Ave. to Michigan Central R. R., Solvay Ave. from Fort St. to Michigan Central R. R., Witt Ave. from Lawndale to Elsmere Aves., all 26 ft. wide, Webb Ave. from 12th St. to Oakman & Stolls' Subdivision, 2 roadways 16 ft. wide and one 26 ft. wide, involving 23,137 cu.yd. excav., 34,497 lin.ft. curbstone, 50,914 sq.yd. paving and concrete base, 968 cu.yd. concrete under and behind curb, etc.

Mich., Highland Park (Detroit P. O.)—City having plans prepared by L. C. Whitsit, engr., 20 Gerald Ave., paving, grading and curbing with asphaltic concrete on concrete base, 1200 ft. Brush St. from Ferris Ave. to Six Mile Rd., 2700 ft. Oakland Ave. from Farrand to Manchester Aves., 1500 ft. Davison Ave. from Oakland Ave. to Grand Trunk R. R. tracks.

Mich., Oakwood (Oxford P. O.)—City soon lets contract paving 5800 ft. Fort Blvd. from River Rouge bridge to Dearborn Rd., 6-in. concrete, 2 strips 3000 ft. long, 20 ft. wide and two strips 2800 ft. long, 15 ft. wide, concrete curbing, etc. H. L. Russell, 505 Moffat Bldg., Detroit, engr. Noted Apr. 24.

Mich., Three Rivers—City retained G. Champe, engr., 610 Nasby Bldg., to prepare plans for grading, draining, curbing and paving with concrete, 2 mi. Main and 6th Sts., 30 and 40 ft. wide.

Illinois—State Highway Comn., Springfield, received no bids May 14, paving roads in following counties: La Salle Co., 5940 ft. Sect. K. Route 15, 15 ft. wide; Shelby Co., 3750 ft. Sect. I. Route 5, 16 ft. wide; Macoupin Co., 3274 ft. Sect. H. Route 7, 10 ft. wide and 5200 ft. Sect. I, Route 12, 24 ft. wide. Noted May 1.

Illinois—State Highway Comn., Springfield, receives bids about July building 1 mi. state road from Benton to Frankfort, 10 or 16 ft. wide. About $11,000 available. H. E. Bilger, state highway engr.

Illinois—State Highway Comn., Springfield, rejected bids received Apr. 30, paving roads in following counties: Lake Co., 6060 ft. Sect. J. Route 6, 18 ft. wide; Bond Co., 1783 ft. Sect. E, Route 6, 10 ft. wide; Stephenson Co., 5300 ft. Sect. F, Route 1, 10 ft. wide; Adams Co., 4459 ft. Sect. E, Route 5, 15 ft. wide. Noted May 15.

Ill., Belleville—City appropriated $30,000 bonds to improve streets and bridges.

Ill., Chicago—Cook Co. receives bids about June building 13,755 ft. Homewood-Lansing Rd., Sect. 43-15d, 18 ft. wide, Thornton Twp., involving 27,518 sq.yd. (a) cement concrete or (b) bituminous concrete, 7300 cu.yd. earth excav., etc. Cost, (a) $90,955, (b) $109,343. B. D. Barker, co. engr.

Wis., Janesville—Rock Co. voted $1,500,000 bonds to build concrete roads.

Wis., Milwaukee—Milwaukee Co. soon lets contract grading and paving Howell Rd. No. 4 from Ryan Rd. south 2 mi. to county line, involving 21,200 sq.yd. one course concrete paving, 9200 cu.yd. excav. and 150 cu.yd. concrete culverts; Wauwatosa Ave. from North Main St. in city of Wauwatosa, north 2 mi. to Lisbon Rd., 20,500 sq.yd. concrete paving, and 5000 cu.yd. excav.; Kilbourn Rd. No. 1 from city limits 1.1 mi. south to Loomis Rd., 15,600 sq. yd. asphaltic concrete surfacing, etc. G. Hampel, co. clk.

Ia., Ft. Dodge—Bd. Supervs. Webster Co. soon receives bids grading, surfacing and draining 11.7 mi. road, 24 ft. wide, gravel 18 ft. wide. About $42,470. Work involves 30,400 cu.yd. gravel, 47,336 cu.yd. excav. etc. J. L. Parsons, co. engr.

Ia., Iowa City—Johnson Co. election June 23, to vote on $1,500,000 bonds to pave entire primary road system, 70.6 mi. long, 18 ft. wide, probably concrete. A. F. Fischer, co. engr.

Ia., Primghar—Bd. Supervs. O'Brien Co. election June 17 to vote on $1,500,000 bonds to pave and grade primary road system, about 80 mi. J. C. Kerrigan, co. engr.

Ia., Waterloo—Blackhawk Co., election June 3 to vote on $1,500,000 bonds to pave entire primary road system, 76.95 mi. long, 18 ft. wide, probably concrete. C. M. Fisher, co. engr.

Minn., Blue Earth—City soon lets contract for 5000 sq.yd. rein.-con. paving. E. Floe, clk.

Minn., Faribault—Comrs. Rice Co. soon receive bids building 11 mi. road from Northfield to here, 18 ft. wide. About $200,000. W. P. Chapman, Faribault, engr.

Minn., Mahnomen—Comrs. Mahnomen Co. plan to build 19 mi. gravel road from Becker to Polk Co. line, 20 ft. wide. About $200,000. H. R. Chapin, Mahnomen, engr.

Kan., Anthony—City soon lets contract for 8000 sq.yd. concrete paving on South Anthony Ave. from Main to Hayes Sts. C. C. Eastham, city engr.

Kan., Eureka—City soon lets contract for 23,400 sq.yd. paving and 15,000 lin.ft. curbing and guttering. W. J. Bilson, city engr.

Kan., Garden City—City soon lets contract paving, curbing and guttering Main and various other streets. Work involves 27,336 sq.yd. 3 in. vertical fiber brick on 4 in. concrete base, 7900 ft. curb and gutter, 3200 cu.yd. excav., etc. Ruckel Eng. Co., Garden City, engrs.

Kan., Lawrence—City soon lets contract for 18½ mi. concrete paving, 18 ft. wide, and two 40 ft. rein.-con. bridges. About $445,000. L. Duffee, engr.

Kan., Peabody—City soon lets contract paving sections of Olive, Walnut, Sycamore, Maple, Elm, Division, 1st, 3rd and 4th Sts. Work involves 18,000 cu.yd. excav., 28,345 lin.ft. combined curb and gutter, 2145 lin.ft. oak and concrete headers, 41,532 sq.yd. paving, etc. Black & Veatch, Inter State Bldg., Kansas City, Mo., engrs.

Neb., Geneva—C. Underwood, clk., receives bids about June 1, paving 10½ blocks Main St., involving 10,000 lin.ft. curbing and 30,000 sq.yd. vertical fiber, asphalt or concrete. About $130,000. Grant & Fulton, Lincoln, engrs.

Neb., Omaha—Douglas Co. plans election to vote on $3,000,000 bonds to pave 105 mi. of roads.

Mont., Great Falls—City plans to pave and improve sections of 1st Ave. S., 2nd Ave. S., 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th and 15th Sts., in Dist. No. 357. About $140,000. L. B. Evenson, city engr.

Mont., Hardin—Big Horn Co. plans to grade 20 mi. Hardin-Foster-Custer Rd. About $20,000. Federal Government asked to appropriate toward cost. P. D. Pratt, Helena, state highway engr.

Mont., Kalispell—Flathead Co. plans to grade 6 mi. Kalispell-Ovando Rd. Sect. No. 2, $15,000; 22 mi. Smith Valley Rd., $10,000; 7.25 mi. Spotts-Columbia Falls Rd., $10,000; Federal Government asked to appropriate toward cost. P. D. Pratt, Helena, state highway engr.

Mont., Laurel—City plans to pave 1 mi. Main St., 20 ft. wide. About $47,000. Federal Government will be asked to appropriate toward cost. P. D. Pratt, Helena, state highway engr.

Mont., Roundup—City plans to pave Main St., cost, $20,000; 1st Ave. W., $30,000; 8th Ave., $20,000; Federal Government will appropriate toward cost. F. Quinnel, city engr.

Mo., Excelsior Springs—City plans to pave 1200 ft. Kansas City Ave., 30 ft. wide, involving 4700 sq.yd. vertical fibre brick on old base; 700 ft. Elm Blvd., 36 ft. wide, involving 3400 sq.yd. bituminous macadam on old base. About $16,000. C. A. Shockley, 740 Reserve Bank Bldg., Kansas City, engr.

Mo., Joplin—City soon lets contract paving Forrest Ave. from 4th St. to Central Ave., 45 ft. wide, class "G" macadam, cost $18,740; Byers Ave. from 1st to 10th Sts., 45 ft. wide, bituminous macadam, $21,000. S. P. Ashcraft, city engr.

Mo., St. Joseph—City plans to pave 1637 ft. 26th St. from Mitchell to Doniphan Aves., 26 ft. wide, involving 4190 sq.yd. 2 in. asphaltic concrete on 6 in. concrete base, cost $14,700; 1200 ft. Shady Ave. from St. Joseph Ave. to 5th St., 26 ft. wide, 3800 sq.yd. 6 in. concrete, 2400 lin.ft. integral curb and 4400 sq.ft. concrete sidewalk, $11,600; 1520 ft. Valley St. from King Hill Ave. to 3rd St., 26 ft. wide, 4760 sq. yd. 6 in. concrete, 3050 lin.ft. integral curbing and 1800 sq.ft. sidewalk, $15,100; 1110 ft. Market St. from Prospect Ave. to 2nd St., 30 ft. wide, 3640 sq.yd. asphaltic concrete on 6 in. base, 2140 lin.ft. combination curb and gutter and 600 sq.ft. concrete sidewalk, $13,300; 620 ft. 27th St. from Duncan to Jackson Sts., 30 ft. wide, 1670 sq.yd. vertical fiber on 6 in. concrete base, 1240 lin.ft. plain curbing and 5900 sq.ft. concrete sidewalk, $11,800. H. Judson, city engr.

Tex., Ballinger—Runnels Co. plans to gravel surface and drain 8.36 mi. State Highway No. 7, from Rowena to Ballinger, involving 190 cu.yd. concrete, 5479 cu.yd. earth excav. and 8692 cu.yd. rock and sand excav. About $38,235. J. L. Dellis, Ballinger, engr.

Tex., Beeville—Bee Co. voted $600,000 bonds to build roads. Noted Apr. 3.

Tex., Bonham—Fannin Co. plans to gravel surface 7.121 mi. State Highway No. 5, Bonham-Sherman Rd., from Ector to county line, 14 ft. wide. Work involves 2 acres clearing and grubbing 420 cu.yd. concrete for drainage structures and 12,801 cu.yd. earth excav. About $26,357. A. J. Goode, Bonham, engr.

Tex., Brenham—Washington Co. election May 31 to vote on $1,500,000 bonds to build and improve highways.

Tex., Brownwood—Brown Co. plans to build 10.96 mi. Highway No. 10 from Brown Co. Court House to Comanche Co. line, 16 ft. wide, involving 105,000 sq.yd. concrete, 130,000 gal. bituminous surface treatment and 50,000 gal. asphalt, etc. About $45,000. R. A. Nichols, Brownwood, engr.

Tex., Decatur—Wise Co. plans to gravel surface 41.6 mi. State Highway No. 2 from north boundary line of Tarrant Co. to south boundary line Montague Co., 24 ft. wide. About $294,684. J. A. Simpson, Decatur, engr.

Tex., Ft. Worth—Tarrant Co. had plans prepared for gravel surfacing 9.928 mi. State Highway No. 2, involving 9,000 cu.yd. 5 and 8 in. concrete, 43,682 gal. bituminous material and 13,645 lb. steel. About $66,631. H. P. Hayes, 1515 Lincoln Ave., engr.

Tex., Odessa—Ector and Crane Counties plan to improve 9.753 mi. Highway No. 1, from Ward Co. line to Judkins, 23 ft. wide. Plans include 74.9 acres clearing and grubbing and 3.54 mi. gravel surfacing, etc. About $115,350. C. A. Vaughan, Odessa, engr.

Tex., Orange—Orange Co. plans to shell surface and drain 6.93 mi. Highway No. 3, from west line Road Dist. 3 to Orange Co. line, 24 ft. wide. About $42,242. C. R. Goodman, Orange, engr.

Tex., Roby—Fisher Co. plans to lay and gravel surface 8.59 mi. Rotan Rd. from Rotan to Stonewall Co. line. About $65,000. T. E. Hess, c/o Hess & Skinner, South Western Life Bldg., Dallas, engr.

Tex., Sherman—City election June 6 to vote on $50,000 bonds to improve streets.

Tex., Van Horn—Culberson Co. plans to build and grade 52.506 mi. State Highway No. 12, 24 ft. wide. Work involves 78 acres clearing and grubbing, 5584 sq.yd. concrete, 7211 cu.yd. earth and 220 cu.yd. rock excav. About $57,486. H. S. Wilder, c/o Wilder & O'Neil, Houston, engr.

Idaho, Idaho Falls—Bonneville Co. election June 3, to vote on $500,000 bonds to build highways. F. W. Jordan, clk.

Idaho, Rexburg—Madison Co. voted $150,000 bonds to build roads.

Idaho, Twin Falls—City election June 6, to vote on $115,000 bonds to pave street and $40,000 bonds to extend sewers.

Utah, Provo—Utah Co. voted $600,000 bonds to build roads.

Streets and Roads (continued)

Wash., Charleston—City soon lets contract grading and paving Cambrian and various other streets. Work involves 40,445 sq.yd. 6-in. concrete, 13,900 cu.yd. grading, 26,520 ft. concrete curb and gutter and 1930 sq.yd. sidewalks, 5 and 6 ft. wide. About $160,000. Gardner, Gardner & Fischer, Lyon Bldg., Seattle, engrs.

Wash., Goldendale—Comrs. Klickitat Co. received no bids May 3, improving Goldendale-Maryhill Rd. Work will be readvertised.

Wash., Omak—City soon receives bids building cement sidewalks. About $22,000.

Wash., Ritzville—Comrs. Adams Co. received no bids grading, draining and surfacing 12½ mi. Donohue Rd. No. 3, 16 ft. wide, crushed rock and gravel. About $105,000. Work will be readvertised about September.

Wash., Wenatchee—City plans to pave North Wenatchee Ave. About $30,000.

Wash., Wenatchee—Chelan Co. plans to improve various roads. About $300,000.

Oregon—State Highway Comn., Portland, received no bids May 6, grading and macadamizing 6.7 mi. Roseburg-Dillard Rd., Douglas Co. and grading 6.8 mi. Pacific Highway, from Oswego to Oregon City, Clackamas Co. H. Nunn, Salem, state highway engr. Noted May 8.

Oregon—State Highway Comn., Portland, rejected bids received May 6 grading and macadamizing 2 mi. Pacific Highway, Roseburg-Winchester Sect., Douglas Co., estimated cost $22,210; 12.3 mi. Columbia River Highway, Arlington-Morrow Sect., Gilliam Co., $67,745. Noted May 8.

Ore., Enterprise—City soon lets contract hard surfacing 40,000 sq.yd. streets. O. J. Roe, city recdr.

Ore., St. Helens—Columbia Co. soon lets contract paving Smith Rd. Dist. No. 3 from Sta. 158 to 210, and Wallace Rd. Dist. No. 8, from Sta. 136 to 189. J. W. Hunt, clk.

Cal., Fresno—Fresno Co. voted $4,800,000 bonds to build 315 mi. highways involving grading, paving with concrete, corrugated iron and concrete culverts, bridges, etc. D. M. Barnwell, co. clk. L. Aldrich, 297 Blackstone St., engr. Noted Feb. 20.

Cal., Los Angeles—Bd. Supervs. Los Angeles Co. having plans prepared grading and paving 7 mi. Lancaster-Redman Township Rd. near Lancaster, Rd. Dist. No. 1444, paving 5 mi. Lancaster-Redman Township Rd. which has already been graded and surfaced with disintegrated granite, Rd. Dist. No. 144, both 5 in. macadam, also improving 2 mi. Sunset Ave. between Merced Ave. and Pomona Blvd., Rd. Dist. No. 145. F. H. Joyner, co. rd. engr.

Cal., Merced—Comrs. Merced Co. having plans prepared grading and paving 3.06 mi. highway from Gustine to northwest county line, 3.29 mi. east to Thorpe Rd. via Kahl Rd., 2.29 mi. from Le Grand west via Jefferson Ave. et al, 2.70 mi. from Atwater to Winton, 2.40 mi. from Stevenson to Milliken bridge, 5.41 mi. from Stevenson to Fremont bridge and 5 mi. from Gustine to Fremont bridge, 16 ft. wide. County will furnish cement, sand and crushed rock. Work will be done under bond issue of $1,250,000 recently voted. A. E. Crowell, co. engr.

Cal., San Diego—A. H. Wright, clk., receives bids in June grading and paving 18,300 ft. Morena Blvd., et al, 20 and 30 ft. wide, concrete pavement with bitulithic surface. About $75,000. G. Cromwell, city engr. Noted May 15.

BIDS DESIRED

Mass., Gardner—Town receives bids about June 1, building 2 mi. concrete road around Crystal Lake, 12 ft. wide. Parker, Bateman & Chase, 14 Main St., engrs.

N. Y., Brooklyn—Until May 28, by E. Riegelmann, boro. pres., regulating, grading, curbing and laying sidewalks on East 4th St. from Ave. I to J, and excavating to sub-grade of 9 in. Ave. I from East 3rd to East 4th Sts.; regulating and paving with permanent asphalt on 6 in. concrete foundation, roadways of East 4th St. from Ave. I to J and Ave. I from East 3rd to East 4th Sts.; Dumont Ave. from Elton to Linwood Sts.; East 17th St. from Ave. K to L; East 67th St. from 13th to 14th Aves.

N. Y., Gilboa—Until June 10, by Bd. Water Supply, Municipal Bldg., New York City, clearing, grading, draining, building culverts and guard rails on 7.75 mi. road around Schoharie reservoir, in Gilboa and Conesville Twps., Schoharie Co.; Prattsville Twp., Greene Co. and Roxbury Twp., Delaware Co., Constr. 202. B. E. Einbigler, secy.; advertised in this issue.

N. Y., New York—Until May 27, by H. Bruckner, pres. Bronx Boro., repaving with granite blocks on concrete foundation, Southern Blvd. from Boston Rd. to East 182nd St.; East 153rd St. from Melrose to Morris Aves.; East 154th St. from Melrose to Courtlandt Aves.; Burnside Ave. from Anthony to Creston Aves.; Wilkins Ave. from Jennings St. to Boston Rd.; Cypress Ave. from East 132nd to East 138th Sts.; regulating, grading and setting curbs, laying sidewalks and crosswalks, building inlets, receiving basins, drains, culverts, approaches and guard rails, in Kinsella St. from Matthews to Bronxdale Aves.

N. Y., S. I., St. George—Until May 27, by C. D. Van Name, pres. Richmond Boro., regulating and repaving with bituminous concrete on present macadam foundation, roadway of Richmond Ave., from Richmond Hill Rd. to Arthur Kill Rd.

N. J., Burlington—Until June 4 (change of date), by Bd. Freeholders Burlington Co., improving Sect. No. 2 Moorestown-Camden Pike, Chester Twp., involving 5717 sq.yd. sheet asphalt surface on concrete foundation; advertised in this issue. Noted Apr. 24.

N. J., Jersey City—Until May 27, by city, paving Bond St. from Hudson Blvd. to Garrison Ave., asphalt on concrete foundation. About $10,000.

Pa., Braddock—Until May 26, by Boro. Council, Municipal Bldg., grading, paving and curbing Braddock Ave.

Pa., Butler—Until June 3, by City Clk., paving 1152 sq.yd. Oak St., 1365 sq.yd. Summit St., 6915 sq.yd. Jefferson St., 1917 sq.yd. Wayne St., 4175 sq.yd. Center Ave.; also building 1840 lin.ft. main sewer and 1150 lin.ft. laterals in Jefferson St., 550 lin. ft. main sewer and 324 lin.ft. laterals in Wayne St. H. O. Carson, city engr.; advertised in this issue.

Pa., Crafton (Pittsburgh P. O.)—Until May 27, by Boro. Council, grading, paving and curbing Barr Ave. from Keever to Willard St., Harris Ave. from Barr to Clearview Sts., and Chartiers St. from Woodlawn St. to R. R. bridge, involving 3190 sq.yd. vitr. brick, 2600 lin.ft. concrete curbing and guttering and 900 cu.yd. earth excav.

Pa., Ebensburg—Until May 28, by Supervs. Susquehanna Twp., c/o Comrs. Cambria Co., building 3.20 mi. Barnesboro-Hastings Rd., Susquehanna Twp., vitr. clay brick or shale paving brick on combination base and curb. C. E. Schlichter, Spangler, engr.

Pa., Ebensburg—Until May 28, by Supervs. Conemaugh Twp., c/o Controller Cambria Co., rebuilding 8600 ft. roadway leading from Franklin Boro. line east to Frankstown Rd. in Conemaugh Twp., vitr. brick paving block on concrete base and curb. Separate bids will also be received for 650,000 No. 1 repressed vitr. paving blocks, f.o.b. cars, nearest point of delivery. O. P. Thomas, Leader Bldg., Johnstown, engr.

Pa., Freeland—Until June 2, by O. Koch, boro. secy., paving Walnut and Front Sts. from Centre St. eastwardly to Birbeck St., Carbon St. from Centre St. eastwardly to boro. line, amiesite or sheet asphalt; new cement curbing, also laying vitr. clay pipes and building sewer drop inlets and catch basins and rebuilding present sewer inlets.

Pa., Pittsburgh—Until June 12, by Controller Allegheny Co., improving 5280 ft. McCoy Rd., 18 ft. wide, rein.-con. and brick; also grading and improving 3 mi. Bull Creek Rd., 16 ft. wide, brick and concrete. R. V. Warren, Court House, engr.

Pa., Pittsburgh—City Council receiving bids grading, paving and curbing Azalia St. from Chartiers Ave. to Crucible St., Alexis St. from Saline St. to Forward Ave., Boundary St. from Saline to Ivondale Sts., Howley St. from Main to Friendship Sts., Downing St. from 1st angle of Hancock St. to Hancock St., Faulkner St. from Chartiers Ave. to Allendale St., Methyl St. from Wentworth St. to Coast Ave.; also grading and paving Mulberry Way from Barbeau Way to Fancourt St. T. M. Reed, City County Bldg., engr. Noted Feb. 27.

Pa., Wilkes-Barre—Until May 29, by Comrs. Luzerne Co., excavating, and grading with concrete and macadam, 4301 ft. Stull Turnpike, 28 ft. wide, cost $5301; 20,230 ft. road in Bear Creek Twp., 28 ft. wide, $30,230; 11,409 ft. Butler Valley Cross Rd., 30 ft. wide, $12,409; 24,761 ft. Nescopeck Pass Turnpike, 30 ft. wide, $25,761; 6780 ft. Lehman Turnpike, 28 ft. wide, $7780; 46,100 ft. Harveys Lake Blvd., 28 ft. wide, $47,100; 25,707 ft. Harveys Lake Rd., 28 ft. wide, $26,707; 6070 ft. Sweet Valley Turnpike, 28 ft. wide, $7070; 3108 ft. Blythburn Blvd., $7108; 7923 ft. Nuangola Mt. Rd., 28 ft. wide, $8923. T. A. Boyle, co. engr.

W. Va., Harrisonville—Until June 20, by Comrs. Ritchie Co. building 5 mi. Northwestern Turnpike, 16 ft. wide, vitr. brick. About $120,000. R. O. Renshaw, Huntington, engr.

W. Va., Hinton—Until June 13, by Comrs. Summers Co. grading and draining 2 mi. Hinton-Beckley Rd., 20 ft. wide, involving 27,000 cu.yd. excav. About $30,000. J. D. French, Hinton, engr.

W. Va., Marlington—Until June 10, by Comrs. Pocohontas Co. building 2.3 mi. Lewisburg Marlins Bottom Turnpike, 16 ft. wide, involving 6,800 cu.yd. excav., and 19,500 sq.yd. waterbound macadam, cost $35,000. Project includes 1 small bridge, $7,000. F. Baxter, Marlington, engr.

N. C., Gastonia—Until June 5, by O. B. Carpenter, clk. Gaston Co., grading and building 3 mi. road from here to Pleasant Ridge, 18 ft. wide.

S. C., Columbia—Until June 3, by city, paving Assembly St. from Gervais to Taylor Sts., involving 17,000 sq.yd. sheet asphalt, bitulithic vitr. brick or cement concrete pavement and 5000 lin.ft. of curb. T. K. Legare, city engr.; advertised in this issue.

O., Cuyahoga Falls—See "Sewers."

O., Cleveland—City receiving bids paving Alcoba Ave. from West 67th to 73rd Sts. and Conover Ave. from West 58th to 89th Sts., involving 1015 cu.yd. excav., 20,270 sq.ft. 5-in. brick paving and 110 ft. 5-in. stone curbing; Tecumseh Ave. from East 108th to 110th Sts. and Edith Ave. from East 115th to 116th Sts., 580 cu.yd. excav. and 17,758 sq.ft. 5-in. brick paving; Selma Ave. from East 65th to 67th Sts. and Tanner Ave. from East 103rd St. to west end, 760 cu.yd. excav., 15,550 sq.ft. 5-in. brick paving, 8310 sq.ft. 6-in. concrete foundation and 1605 ft. 5 in. stone curbing; Pennant Ave. from West 83rd to 85th Sts. and Remis Ave. from West 39th to 41st Sts., 590 cu.yd. excav. and 12,974 sq.ft. 5-in. brick paving; Olivet Ave. from East 108th St. to Hathaway Ave. and Mace Court from West 11th to 12th Sts., 495 cu.yd. excav. and 12,520 sq.ft. 5-in. brick paving; Independence Rd. from Fleet Ave. to city limits, 1400 cu.yd. excav., 25,500 sq.ft. 4-in. brick paving on 6-in. concrete foundation and 1850 ft. 5-in. stone curbing; Hodgeson Ave. from Fulton Rd. to West 44th St., 850 cu.yd. excav., 17,900 sq.ft. 4-in. brick paving on 6-in. concrete foundation and 1370 ft. 5-in. stone curbing; Dayton Court from East 37th to 38th Sts. and Gilbert Ave. from West 58th to 61st Sts., 775 cu.yd. excav., 15,405 sq.ft. 4-in. brick paving on 6-in. concrete foundation and 1330 ft. 5-in. stone curbing. R. Hoffman, city engr.

O., Cleveland—City received bids paving (a) Marsh Ave. from East 93rd to 102nd Sts., (b) Trent Ave. from Fulton Rd. to West 41st St., (c) Hamlen Ave. from East Blvd. to East 121st St., (d) West 58th St. from Bridge to Detroit Aves., (e) East 121st St. from Kinsman Rd. to point 1046 ft. north of Luke Rd., from Rieley Bros., 357 The Arcade, (a) $26,576, (c) $21,151, (e) $27,922; A. M. Pepsa, 2359 East 93rd St., (a) $27,085, (c) $21,088, (e) $27,678; Bentley Bros., Union Bldg., (a) $27,239; Roehl Bros., West 25th St. and Clark Ave., (b) $22,910, (d) $29,451; Freshwater Paving Co., 11712 Detroit Ave., (b) $23,212, (d) $29,213; McHugh Bros., Society for Savings Bldg., (b) $23,785, (d) $29,452; Baldwin Bros. 4500 Euclid Bldg., (c) $20,856, (e) $27,800. Noted May 8.

Indiana—Bd. Co. Comrs. building roads in following counties:

June 3, Hamilton Co., Noblesville, building 3 concrete roads in Noblesville and Adams Twps. H. O. Cottingham, aud.

Jefferson Co., Madison, improving certain road in Monroe Twp. C. S. Dibler, aud.

Lawrence Co., Bedford, building certain road in Shawswick Twp. W. M. Dennistón, aud.

Monroe Co., Bloomington, stone road in Richland Twp. H. Blakely, aud.

Boone Co., Lebanon, 3 gravel roads in Clinton and Jackson Twps. C. Goodwin, aud.

Miam. Co., Peru, gravel road in Union Twp. C. Wolf, aud.

Dearborn Co., Lawrenceburg, broken stone road in Washington Twp. A. E. Jackson, aud.

Streets and Roads (continued)

Montgomery Co., Crawfordsville, brick road in Coal Creek Twp. W. F. Batman, aud.

Gibson Co., Princeton, 3 stone and gravel roads in Montgomery and White River Twps., 15,817 ft., 1890 ft. and 2456 ft. long. J. H. Armstrong, aud.

Starke Co., Knox, building certain roads in Center and Washington Twps. C. W. Weninger, aud.

Marshall Co., Plymouth, improving certain highways. O. H. Weber, aud.

Fountain Co., Covington, stone and gravel road in Mill Creek, Vanburen and Troy Twps. H. W. Newlin, aud.

Porter Co., Valparaiso, 4 gravel roads in Porter, Westchester and Pleasant Twps. R. H. Kinne, aud.

Lawrence Co., Bedford, building gravel or macadam roads in Indian Creek and Marion Twps. W. M. Denniston, aud.

Clay Co., Brazil, 2 stone roads on line between Sugar Ridge and Jackson Twp.; also on line between Posey and Perry Twps. W. E. Parrish, aud.

Mich., Saginaw—Until May 26, by Rd. Comrs., Saginaw Co., building South Washington Rd., in Bridgeport Twp., Assessment Dist. Rd. No. 22, 2.286 mi. long, 12 ft. wide, metal track Class "C" road. About $27,400. R. W. Roberts, 201 Schirmer Bldg., engr.

Wis., Kenosha—Until May 29, by city, paving North Ridge St. from Grand Ave. to Alberts St. Work involves 7745 sq.yd. type A standard sheet asphalt on 5 in. concrete base. B. C. Brennan, city engr.

Wis., Sheboygan—Until June 1, by E. A. Boley, city engr., grading, paving, curbing and building sidewalks on St. Clair Ave. from 5th to 24th Sts., 20 ft. wide, involving 15,780 sq. yd. concrete, 1500 lin.ft. concrete curb and 1000 lin.ft. gutter. About $15,000.

Ia., Emmetsburg—Until June 3, by city, for 73,000 sq.yd. brick, sheet asphalt, asphaltic concrete or bitulithic pavement, or 82,000 sq.yd. concrete pavement, together with necessary curb, gutter and grading, etc., also for 26,000 lin.ft. 10-30 in. storm water sewers, vitr. tile or concrete. Marr, Green & Co., 17 North La Salle St., Chicago, engrs.; advertised in this issue. Noted Apr. 17.

Minn., Albert Lea—Until June 2, by F. Tavis, aud. Freeborn Co., grading 11.5 mi. Federal Aid Project No. 65, State Rd. No. 6, 18 ft. wide, involving 10 acres clearing and grubbing, 70,000 cu.yd. grading, 28,000 ft. tiling, 14,375 cu.yd. gravel surfacing, etc. About $60,000. Above work to be divided into two divisions and separate bids will be received on each division for grading and work incidental thereto or for grading and surfacing and work incidental to each. E. V. H. Brown, Albert Lea, engr.

Minn., Austin—Until June 9, by Mower Co., grading and graveling 27 mi. Federal Aid Project No. 38, 18 ft. wide. About $100,000. A. C. White, Austin, engr. Noted Apr. 10.

Minn., Bemidji—Until June 13, by Beltrami Co., grading and graveling 16 mi. Federal Aid Project No. 76, 18 ft. wide, involving 19,200 cu.yd. graveling. About $80,000. S. D. Snyder, Bemidji, engr.

Minn., Brainerd—Until June 12, by Crow Wing Co., grading and graveling 23 mi. Federal Aid Project No. 51, 18 ft. wide, involving 27,600 cu.yd. graveling. About $115,000. C. L. Motl, Brainerd, engr.

Minn., Elbow Lake—Until June 17, by Grant Co., grading and graveling 6 mi. Federal Aid Project No. 28, 18 ft. wide, involving 7200 cu.yd. graveling. About $30,000. W. E. Burgess, Elbow Lake, engr.

Minn., Elk River—Until June 16, by Sherburne Co., paving 6.5 mi. Federal Aid Project No. 69, 18 ft. wide. About $162,500. F. W. Nickerson, Elk River, engr.

Minn., Grand Rapids—Until June 14, by Itasca Co., grading and graveling 10 mi. Federal Aid Project No. 52, 18 ft. wide, involving 12,000 cu.yd. graveling. About $50,000. O. J. Lidberg, Jackson, engr.

Minn., Hastings—Until June 9, by aud. Dakato Co., paving 6 mi. Federal Aid Project No. 23, State Rd. No. 1, 28 ft. wide, involving 71,071 sq.yd. pavement. About $150,000. C. L. Methven, Hastings, engr.

Minn., Little Falls—Until June 19, by Morrison Co., grading and graveling 24 mi. Federal Aid Project No. 24, 18 ft. wide, involving 28,800 cu.yd. graveling. About $120,000. A. J. Fenn, Little Falls, engr.

Minn., Luverne—Until June 17, by O. Skyberg, aud. Rock Co., graveling 6½ mi. Job No. 1902, State Rd. No. 2, involving 10,400 cu.yd. graveling; 2 mi. Job No. 1903, State Rd. No. 6, 3200 cu.yd. graveling; 11 mi. Job. No. 1904, State Rd. No. 5, 17,600 cu.yd. graveling. D. E Davison, Luverne, engr.

Minn., Mahnomen—Until May 28, by E. E. Johnson, aud. Mahnomen Co., building Rd. Job No. 1, involving 8438 cu.yd., Rd. Job No. 2, 9323 cu.yd., Rd. Job No. 3, 1575 cu.yd., Rd. Job No. 4, 940 cu.yd., also laying 2000 ft. tile ,7 ft. average depth. H. R. Chapin, Mahnomen, engr.

Minn, Minneapolis—Until May 26, by Hennepin Co., paving 5.5 mi. Federal Aid Project No. 130, 20 ft. wide. About $137,500. E. E. Terrell, Minneapolis, engr.

Minn., Montevideo—Until June 10, by J. J. Stennes, aud. Chippewa Co., building 15 mi. Federal Aid Project No. 49, State Rd. Nos. 1 and 4, involving 18,000 cu.yd. gravel, 120,000 cu.yd. excav. and one 20-ft. rein.-con. bridge. F. O. Nelson, Montevideo, engr.

Minn., Moorehead—Until June 18, by Clay Co., paving 5.5 mi. Federal Aid Project No. 60, 18 ft. wide. About $137,500. E. Martinson, Moorehead, engr.

Minn., Morris—Until June 11, by Stevens Co., paving 10 mi. Federal Aid Project No. 67, 18 ft. wide. About $250,000. W. A. Hunt, Morris, engr. Noted May 1.

Minn., Red Wing—Until June 6, by C. H. Meyer, aud. Goodhue Co., paving 5.4 mi. Federal Aid Project No. 19, State Rd. No. 2, Job No. 1902, 18 ft. wide, involving 55,120 sq.yd. pavement, 180 cu.yd. riprap, and 12,000 cu.yd. excav. About $130,000. J. A. Prior, Red Wing, engr.

Minn., St. Peter—Until May 24, by W. H. Holz, aud. Nicollet Co., building 3½ mi. State Rd. No. 2, Job No. 1808, Granby Twp. About $12,840. Work involves 46,921 cu.yd. overhaul and 38,387 cu.yd. excav.; also 4 rein.-con. bridges, culverts and retaining wall on State Rds. Nos. 4 and 6. H. W. Daniels, St. Peter, engr.

Minn., Worthington—Until June 3, by Nobles Co., grading and graveling 5.5 mi. Federal Aid Project No. 58, 18 ft. wide, involving 6600 cu.yd. graveling, cost, $137,500; 24 mi. Federal Aid Project No. 45, 28,800 cu.yd. graveling. J. R. Boemer, Worthington, engr. Noted May 1.

Kan., Emporia—Until May 27, by Bd. Comrs. for 23,500 sq.yd. concrete, brick or asphaltic concrete paving. A. J. Smith, city engr.

Kan., Junction City—Until June 19, by R. Moon, clk. Geary Co., building 7½ mi. highway, 18 ft. wide, 2 course concrete. B. Boyle, co. engr.

Neb., Fremont—Until June 3, by W. E. Barz, clk. Dodge Co., grading and paving 5.94 mi. Fremont-Ames Rd., grading 30 ft. wide, paving 18 ft. wide. Work involves 62,606 sq.yd. 6-8 in. concrete, 24,721 cu.yd. earth excav., 256 lin.ft. 18-in. concrete pipe and 18 cu.yd. concrete. About $135,000. G. E. Johnson, state highway engr.

Neb., Lyon—Until June 5, by H. S. White, city clk., paving 2½ blocks Main St., 64 ft. wide, involving 7010 sq.yd. vertical fibre, asphalt or concrete, on 5 in. concrete base, 580 lin.ft. concrete curbing, etc. About $30,000. Grant & Fulton, Lincoln, engrs. Noted May 15.

Neb., Ponca—Until June 5, by A. N. Porter, clk. Dixon Co., grading and building culverts on 16.9 mi. Allen-Ponce Rd., 24 ft. wide. Work involves 98,000 cu.yd. earth excav., 858 lin.ft. 18-60 in. concrete pipe, and 450 cu.yd. concrete. About $48,000. G. E. Johnson, state highway engr.

Neb., Seward—Until June 5, by U. H. Franklin, clk. Seward Co., grading and building culverts on 48.9 mi. Seward-Aurora Rd., 24 ft. wide, in Seward, York and Hamilton Counties. Work involves 272,256 cu.yd. earth excav., 1984 ft. 12-48 in. concrete pipe, 50 ft. corrugated pipe, and 280 cu.yd. concrete culverts. About $110,000. G. E. Johnson, state highway engr.

Arkansas—Until May 31, by State Highway Dept., Little Rock, building 22.27 mi. macadam road from Springdale to Madison Co. line. Hamilton & Shreve, Fayetteville, engrs.

Ark., Osceola—Until June 2, by Pride & Fairley, engrs., Osceola, grading 203½ mi. roads in Mississippi Co., involving 1,448,600 cu.yd. excav.; advertised in this issue.

Canada—Until May 29, by Deputy Minister, Dept. Interior, Ottawa, Ont., building Banff-Windermere Highway from Sta. No. 106 to 282, British Columbia, Castle-Laggan Highway from Sta. No. 355 to 960, Alberta, and Edith Cavell Highway from Sta. No. 308 to 864, Alberta. L. Percival, Ottawa, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Massachusetts—State Highway Comn., 212 State House, Boston, received bids May 13, resurfacing and draining 5200 ft. state highway, Wenham Twp., 18 ft. wide, involving 24,400 gal. bituminous macadam, 4100 cu.yd. earth excav., 3600 ton broken stone and 860 cu.yd. concrete masonry, from C. E. Whipple, Hamilton, $17,363; J. E. Watkins, Amesbury, $20,931; J. A. Gaffy, Medford, $23,730. Noted May 8.

★**Mass., Boston**—Comn. Waterways & Pub. Lands let contract paving 2900 ft. Drydock Ave., 70 ft. wide, to Coleman Bros., Chelsea, $149,103. Noted Apr. 24.

Mass., Boston—Park Comn. received bids May 13, building walks, drives and playgrounds in Franklin Park, involving 6000 sq.yd. macadam sidewalks, 5800 cu.yd. earth and 300 cu.yd. rock excav., 830 ft. 6-8 in. tile drain, from J. C. Coleman & Sons, 1620 Tremont St., Roxbury, $10,056; Coleman Bros., Chelsea, $12,399; F. H. Connelly, 110 Bower St., Roxbury, $12,595. Noted May 8.

★**Mass., Pittsfield**—Bd. Pub. Wks. let contracts building appurtenances and paving West Housatonic St. from Center to Hawthorne Sts., to Lindholm & Piscatelli, Pittsfield, cost $44,000; South St. from Bank Row to South Mountain Rd., to D. J. Walsh, 311 North St., $136,000; Pecks Rd. from Mahconah St. to Highland Ave., to Lane Constr. Co., 37 Colony St., Meriden, Conn., $35,000. Noted May 1.

★**Mass., Pittsfield**—City let contract paving Hurlburt, Union, Tyler and North Sts., to Lindholm & Piscatelli, Pittsfield. About $26,000. Noted Mar. 6.

New York—State Highway Comn., Albany, received lowest 3 bids May 15, completing roads in following counties: (a1) Cattaraugus Co., 6.88 mi. Rd. No. 5544, Hinsdale-Franklinville, Part 2; (a2) 4.73 mi. No. 5607, Franklinville-Machias; (a3) 2.17 mi. No. 5608, Machias-Delevan, Part 1;

(b) Delaware Co., 6.51 mi. No. 1439, Sidney-Masonville;

(c) Erie Co., 5.19 mi No. 5622, Holland-Yorkshire, Part 1;

(d1) Montgomery Co., 2.49 mi. No. 513, Amsterdam-Morris Corners; (d2) 1.61 mi. No. 515, Berryville-Sammonsville;

(e1) Nassau Co., 4.98 mi. No. 1342, Roslyn-Port Washington; (e2) 3.09 mi. No. 1343, Westbury-Hicksville; (e3) 3.38 mi. No. 1344, Green Corner-Francis Pond;

(f) Onondaga Co., 5.55 mi. No. 1354, Syracuse-Otisco, Part 1;

(g) Orange Co., 9.18 mi. No. 499, Middletown-Montgomery Co. Line;

(h) Ulster Co., 3.17 mi. No. 1419, Rosendale Village;

(i) Wayne Co., 3.97 mi. No. 1407, Newark-Sodus, Part 1;

(j) Rensselaer Co., No. 1426, Whitehouse Bridge-Vermont State Line; also repairing following:

(k) Columbus Co., Repair No. 1187, Rd. No. 4 and 615;

(l) Livingston Co., Repair No. 1214, Rd. 714;

(m) Montgomery Co., Repair No. 1171, Rd. 864;

(n) Niagara Co., Repair No. 1222, Rd. 749;

(o) St. Lawrence Co., Repair No. 1216, Rd. 521;

(p) Steuben Co., Repair No. 1223, Rd. 5204;

(q1) Westchester Co., Repair No. 1217, Rds. 657 and 1207; (q2) Repair No. 1218, Rd. 503; (q3) Repair No. 1220, Rds. 52 and 53; (q4) Repair No. 1221, Rd. 18;

(r1) Orange Co., Repair No. 1183, Rds. 42 and 157; (r2) Repair No. 1182, Rd. 282, from

Amer. Pipe & Constr. Co., 112 North Broad St., Phila., Pa., (a1) $130,748; (a2) $128,817.

H. C. Schroeder, Mercantile Bldg., Rochester, (a1) $131,448; (i) $43,064.

R. H. Gipp, Buffalo, (a1) $138,880;

Veeder Constr. Co., Delevan, (a2) $128,891; (a3) $39,487.

Serafini & Stento, Binghamton, (b) $154,917.

Rosoff Eng. Co., 15 Park Row, New York City, (b) $157,536.

T. H. Gill Co., Binghamton, (b) $160,885.

Cold Spring Constr. Co., Buffalo, (c) $184,924.

Streets and Roads (continued)

J. P. Dugan & Co., Inc., 32 James St., Amsterdam, (d1) $18,482; (d2) $24,947; (m) $4071.

H. A. Schaupp, Guilderland, (d1) $20,581; (d2) $26,985.

Oltarsh Eng. Co., New York City, (d2) $25,992.

J. W. Mitchell, Port Washington, (e1) $121,200.

T. F. Toohey Co., Inc., Flushing, (e1) $128,570; (e3) $73,296.

J. J. McDermott, Port Washington, (e1) $131,498.

Mallory & Walsh, Brooklyn, (e2) $80,003.

Gifford Constr. Co., Jamaica, (e2) $80,-270.

H. J. Mullen Contg. Co., Inc., Fulton St., Jamaica, (e2) $82,647.

J. D. Cosgrove, Glen Cove, (e3) $81,070.

Peace Bros., 20 Main St., Flushing, (e3) $83,337.

M. H. Ripton, Livingston Bldg., Rochester, (f) $124,119; (l) $63,418.

Monda Constr. Co., Inc., Kirk Bldg., Syracuse, (f) $128,192.

Scott Bros., Arlington Blk., Rome, (f) $129,518.

S. B. Van Wagenen, Inc., Rondout, (g) $171,846.

Dale Eng. Co., Mann Bldg., Utica, (g) $178,045; (n) $56,842.

Schunnemunk Constr. Co., Highland Mills, (g) $179,006; (r1) $57,190; (r2) $33,-353.

DeGraff & Hogeboom, Inc., Kingston, (h) $70,091; (r2) $33,333.

Ribstein-Holter Co., Inc., 16 State St., Rochester, (i) $42,557.

W. J. Semper, Watertown, (i) $42,586.

L. Mayersohn, Albany, (j) $83,977.

Troy Contg. Co., Troy, (j) $85,898.

M. Fitzgerald, Hoosick Falls, (j) $87,808.

Lane Constr. Co., 37 Colony St., Meriden, Conn., (k) $87,645.

S. Beskin, Beacon, (k) $92,533.

Belmar Contg. Co., Troy, (k) $94,778.

Harradine Bros. Co., Inc., Spencerport, (l) $64,608.

Greenfield Constr. Co., 89 Main St., Hornell, (l) $64,810; (p) $31,408.

H. Z. Wemple and R. Wemple, Fultonville, (m) $4001.

C. Welch & Co., Gloversville, (m) $4200.

McCarthy & Rock, Winthrop, (o) $26,-993.

W. T. Thayer & Co., East Main St., Chateaugay, (o) $28,118.

A. F. McConville, Ogdensburg, (o) $28,-320.

McGreevey, McGuigan & Baum Constr. Co., Robinson Bldg., Elmira, (p) $33,225.

J. M. Murray, Leroy, (p) $31,600.

Malloy & Murray Contg. Co., Yonkers, (q1) $30,978; (q4) $89,265.

Monticello Constr. Co., Inc., Monticello, (q1) $31,722.

J. L. Hayes Co., Yonkers, (q1) $33,722; (q4) $99,380.

L. Petrillo, Mt. Vernon, (q2) $39,341; (q3) $9299.

Good Rds. Eng. & Contg. Co., Portchester, (q2) $39,905; (q4) $92,297.

Greenwich Contg. Co., New York City, (q2) $43,080.

J. Dimendo, 382 Mamaroneck Ave., Mamaroneck, (q3) $9016.

Rainis & Schafmeister, Ossining, (q3) $9057.

L. Gross & Son, Newburgh, (r1) $63,470.

J. A. Jova, Inc., Roseton, (r2) $33,917. Noted May 1.

★**N. Y., Brooklyn**—E. Rieglmann, boro. pres., let contract regulating, curbing, grading and laying sidewalks on Atkins Ave., to C. A. Myers, foot of Stagg St., $4662; Bayard, Conway, Humboldt, North 5th and Ryerson Sts. and New York Ave., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $5109, $10,773, $7514, $7533, $8685 and $19,625 respectively; Gravesend Ave. and Sackman St., to Uvalde Asphalt Paving Co., 1 Bway., New York City, $25,806 and $9256 respectively; 12th St. to Brooklyn Alcatraz Asphalt Co., 407 Hamburg Ave., $7007; 40th St., to Hastings Paving Co., 25 Broad St., New York City, $5292; Beard St., to Continental Constr. Co., $6898; Clymer St., to Reico Bros., $14,628; Congress and Canover Sts., to F. J. Gallagher, 490 Park Pl., $11,936 and $2621 respectively; Douglas and 59th Sts., to M. J. O'Hara, 1228 Park Ave., New York City, $6888 and $11,495 respectively; West 1st St., to Cranford Co., 52 9th St., $6680. Noted May 1.

★**N. Y., Harrietstown**—Town will improve 3 mi. Wawheek-Franklin Co. Highway. About $25,000. Work will be done by day labor under supervision of F. Better, Lake Placid, town superv.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received lowest 3 bids May 13, regulating and repaving with granite block on concrete foundation, (a) John St. from Nassau St. to Bway.; (b) 2nd Ave. from 23rd to 34th Sts.; (c) Lexington Ave. from 32nd to 35th Sts., from M. J. Sachs, (a) $7894; (c) $10,843; W. J. Fitzgerald, 547 West 45th St., (a) $8199; P. J. Kerns, (a) $8266; (b) $124,722; (c) $11,172; T. Crimmins, 444 East 69th St., (b) $120,021; (c) $9944; C. Helbrook, (b) $122,830; (c) $10,942.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received lowest 3 bids May 9, regulating and repaving with sheet asphalt, on concrete foundation, (a) William St.; (b) 7th Ave.; (c) 59th St.; (d) Amsterdam Ave.; (e) 120th St., from Sicilian Asphalt Paving Co., 41 Park Row, (a) $31,-534; (b) $6996; (c) $45,717; (d) $83,028; (e) $24,721; Uvalde Asphalt Paving Co., 1 Bway., (a) $32,770; (b) $7453; (c) $46,-699; (d) $78,978; (e) $25,121; Asphalt Constr. Co., 2197 Madison Ave., (a) $32,857; (b) $7783; (c) $44,463; (d) $79,987; (e) $20,317; Cleveland Trinidad Paving Co., Flushing, (a) $32,985; (b) $7767; (c) $41,-874; (d) $81,824; (e) $24,721; Davney Constr. Co., foot Quinby Ave., (d) $80,539; (e) $22,362. Noted May 1.

★**N. Y., Ogdensburg**—City let contract paving Lake and Main Sts., concrete, to W. H. Riny, Ogdensburg, $10,482. Noted Mar. 20.

N. Y., S. I., St. George—C. D. Van Name, pres. Richmond Boro., received bids May 15, regulating and repaving with concrete, roadway Richmond Terrace from Jewett to Richmond Aves., from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $65,-580; J. Johnson & Sons, $66,406; C. Vanderbilt, 24 Elizabeth St., West New Brighton, $67,437.

New Jersey—State Highway Comn., Broad St. Bank Bldg., Trenton, received bids May 12 grading, paving with concrete, building gravel shoulders, on (a) 3.873 mi. State Highway Route No. 3, Elwood-Da-Casta Sect., Atlantic Co., involving 40,-900 sq.yd. concrete and 12,687 cu.yd. earth excav., (b) 5.867 mi. State Highway Route No. 3, Egg Harbor-Elwood Sect., Atlantic Co., 61,954 sq.yd. concrete and 18,748 cu.yd. excav., from J. M. Kelley Constr. Co., 507 Federal St., Camden, (a) $125,119, (b) $194,984; McNichol Paving Co., 1923 Cherry St., Phila., (a) $126,853; M. Staub, Woodbury, (a) $133,834, (b) $202,945; E. L. Bader, Tennessee and Thorfre Sts., Atlantic City, (b) $195,481. Noted Apr. 24.

New Jersey—State Highway Comn., Broad St. Bank Bldg., Trenton, received bids building 4.418 mi. State Highway Route No. 3, Da Costa-Hammontown Sect., Atlantic Co., from M. Staub, Woodbury, $161,173; Hugh-Nawn Constr. Co., 1211 Chestnut St., Phila., $165,820; Langthorn Co., Inc., New York City, $169,524; 1400 sq. yd. State Highway Route No. 4, from Miles & Denniston Co., Asbury Park, $14,-914; Monmouth Contg. Co., Red Bank, $16,429; L. H. Selling, Red Bank, $17,202. Noted May 1.

N. J., Bayonne—City received lowest bid repairing 48th St., sheet asphalt, from W. T. S. Crichfield, 82 Washington St., Hoboken, $20,000.

N. J., Jersey City—City received lowest bid paving Hutton St. from Hudson Co. Blvd. to Liberty Ave., bituminous concrete, from W. T. S. Crichfield, 82 Washington St., Hoboken, $12,000. Noted May 8.

★**N. J., Mays Landing**—Bd. Supervs. Atlantic Co. let contract for 3½ mi. Warrenite pavement on Pleasantville and Mays Landing Rd., to Corson & Corson, Ocean City, $218,225.

★**N. J., Mt. Holly**—Bd. Supervs. Burlington Co. let contract paving with asphalt 9 mi. road between here and Moorestown and 5 mi. between Palmyra and Beverly, to Union Paving Co., 30th and Locust Sts., Phila., $279,010 and $133,634 respectively.

N. J., Trenton—City received bids paving (a) Ferry St., (b) Greenwood Ave., (c) Greenwood Ave., (d) Hamilton Ave., (e) Laclede Ave., (f) Lafayette St., (g) Market St., (h) Montgomery St., (i) Calhoun St., (1) natural asphalt, (2) residual asphalt, from J. J. Barrett Co., Trenton, (a1) $685, (a2) $675, (b1) $14,978, (b2) $14,346, (c1) $53,583, (c2) $52,620, (d1) $23,061, (d2) $22,686, (e1) $4131, (e2) $4079, (f1) $8330, (f2) $8228, (g1) $15,689, (g2) $15,524, (h1) $1849, (h2) $1801, (i1) $4703, (i2) $4653; H. B. Sproul Co., 105 South Davidson St., Peekskill, N. Y., (a1) $718, (a2) $708, (b1) $15,175, (b2) $14,540, (c1) $54,733, (c2) $52,808, (d1) $23,145, (d2) $22,824, (e1) $4268, (e2) $4233, (f1) $8410, (f2) $8325, (g1) $15,854, (g2) $15,689, (h1) $1894, (h2) $1830, (i1) $4778, (i2) $4735; Utility Constr. Co., 46 Paterson St., New Brunswick, (a1) $711, (a2) $701, (b1) $16,-181, (b2) $15,454, (c1) $54,366, (c2) $53,-541, (d1) $23,354, (d2) $22,925, (e1) $4182, (e2) $4139, (f1) $8461, (f2) $8376, (g1) $16,119, (g2) $16,001, (h1) $1965, (h2) $1917, (i1) $4812, (i2) $4770. Noted May 1.

★**Pa., Altoona**—City let contract for trench and street work, to W. W. Saupp & Co., Altoona. About $15,000.

★**Pa., Ebensburg**—Comrs. Cambria Co. let contract building 2 mi. brick road on concrete base, 18 ft. wide, extending from Spangler Boro. line to Kirsch cross roads, Barr Twp., to Bell-Bockel Co., Central Trust Bldg., Altoona, $116,158.

★**Pa., Ebensburg** — Supervs. Richland Twp., c/o Controller Cambria Co., let contract rebuilding 3 mi. vitr. brick road on concrete base, to Bell-Bockel Co., Inc., Central Trust Bldg., Altoona, $124,669. Noted May 1.

Pa., Gallitzin—Supervs. Gallatzin Twp., c/o Controller Cambria Co., let contract rebuilding 1.05 mi. road leading from Cupon to State Highway Route No. 221, fire clay paving brick on combination concrete base and curbing, to E. F. Dimond and J. T. Blair, Ebensburg, $57,851. Noted May 8.

Maryland—State Rds. Comn., 601 Garrett Bldg., Baltimore, received lowest bid grading and paving 1 mi. road from Hancock to Pennsylvania State line, 15 ft. wide, 6-8-in. concrete, Washington Co., from I. G. Robinson, Hancock, $44,284.

★**N. C., Durham**—Durham Co. let contract building 7.48 mi. Durham-Raleigh Rd., 18 ft. wide, involving 78,900 sq.yd. 6-8½-in. concrete, to R. G. Lassiter Co., Oxford, $232,458.

★**Fla., Jacksonville**—Comrs. Duval Co. let contract paving 6500 sq.yd. Atlantic Blvd. from Kings Rd. to Hendix Ave., to F. W. Long Co., 434 East Bay St., $3.15 per sq.yd. Noted Apr. 10.

★**Ala., Bessemer**—City Council let contract paving 8 blocks of 19th St., granite asphalt on 5-in. concrete base, to H. N. Bowdry, Empire Bldg., Birmingham, $2.20 per sq.yd. Total cost, $73,000.

★**Ohio**—State Highway Comn., Columbus, let contracts building roads in counties as follows:

Clinton Co., Sect. "O" Cincinnati-Zanesville Rd., 2.37 mi., grading, constructing bridges and culverts and paving with waterbound macadam, Brewer & Brewer Sons, Chillicothe, $33,405.

Fairfield Co., Sect. "F" Lancaster-Newark Rd., 2.05 mi., grading, constructing bridges and culverts and paving with waterbound macadam, H. W. Curry, Eaton, $41,732.

Ottawa Co., Sect. "E-2" Oak Harbor-Genoa Rd., 1.59 mi., grading, constructing bridges and culverts and paving with concrete, Wise Bros. & Berman, Elmore, $44,-521.

Tuscarawas Co., Sect. "O" Canal Dover-Wooster Rd., 2.52 mi. grading, constructing bridges and culverts and paving with concrete, Hahn Constr. Co., Canton, $76,686.

Wyandot Co., Sect. "B" Tiffin-Upper Sandusky Rd., 1.66 mi. grading, constructing bridges and culverts and paving with asphaltic concrete, Modern Constr. Co., Fremont, $61,666.

Lucas Co., Sect. "B," "C" and "D" of Rd. 56 and Sect. "A" and "B" of Rd. 58, surface treating with tar and covering, H. W. Curry, Eaton, $10,995.

Sect. "J-2" Rd. 51, Sect. "A" Rd. 56, and Sect. "E," "F," "G," "H" and "I," Rd. 21, surface treating with tar, H. W. Curry, Eaton, $17,145. Noted May 8.

★**Ohio**—State Highway Comn., Columbus, let contract grading, paving, building bridges and culverts on 4.18 mi. Columbus-Millersburg Rd., Sect. 1, waterbound macadam, to Gledhill & Rheinhart, Galion, $44,-701. Noted May 15.

O., Cleveland—City received bids paving (a) Champion Ave. from West 101st Pl. to West Blvd., (b) East 125th St. from Kinsman Rd. to Union Ave., (c) West 24th St. from Franklin Ave. to Willeyville Allt., (d) West 24th St. from Moore Court to Willeyville Allt., (e) West 98th St. from Loretta Ave. to Walford Rd., (f) East 114th St. from Harvard to Miles Aves., (g) Kraus Ave. from East 20th to 26th Sts., (h) Ignatius Ave. from West Blvd. to West 105th St., from Freshwater Paving Co.,

Streets and Roads (continued)

11712 Detroit Ave., (a) $12,259, (c) $10,686, (d) $16,731, (e) $19,832, (h) $16,863; Roehl Bros., West 25th St. and Clark Ave., (a) $12,510, (c) $10,668, (d) $16,667, (e) $20,102, (h) $17,283; McHugh Bros., Society for Savings Bldg., (a) $12,777, (c) $10,746, (d) $16,965, (e) $20,228, (h) $17,448; A. M. Pepsa, 2359 East 93rd St., (b) $16,372; Baldwin Bros., 4500 Euclid Ave., (b) $16,452, (f) $17,204, (g) $10,253; Rieley Bros., 357 The Arcade, (b) $16,492, (f) $16,936, (g) $10,168; R. P. Burnett, 527 Society for Savings Bldg., (f) $17,994. Noted May 8.

★**O., Toledo**—Comrs. Lucas Co. let contract grading, draining, curbing and paving 3 mi. Westmoreland and Fairmont Park roads and streets, 24 ft. wide, involving 46,000 sq.yd. bituminous concrete, to Harris & Tansey, 221 Nasby Bldg., $167,840. Noted May 1.

★**Ind., Terre Haute**—Comrs. Vigo Co. let contracts, to Carpenter Constr. Co., Terre Haute, grading, paving and building culverts on 2 mi. Wm. E. Dinkle Rd., 18 ft. wide, involving 10,450 sq.yd. 7-in. vibrolithic concrete, cost $24,823; 2½ mi. J. L. Crawford Rd., 18 and 20 ft. wide, 23,400 sq.yd. 7-in. vibrolithic concrete, $58,446; to Premier Constr. Co., 1023 Lemcke Bldg., Indianapolis, 2½ mi. J. L. Smith Rd., 20 ft. wide, 27,000 sq.yd. bituminous, $82,500.

★**Michigan**—State Highway Comn., Lansing, let contract to B. Fowler, Tawas City, grading, gravel surfacing and building drainage structures on 3 mi. Federal Aid Rd. No. 12, Sect. A2, 15 ft. wide, Iasco Co., cost, $32,000; I. Butzer, Hart, grading and building drainage structures on 4 mi. Federal Aid Rd. No. 1, Sect. A, 24 ft. wide, Montague Twp., Muskegon Co., $10,200; W. H. Friedrick & Co., Bronson, grading, paving with concrete and building drainage structures on 6.7 mi. Federal Aid Rd. No. 31, 16 ft. wide, involving 13,400 cu.yd. concrete, Berrien and Van Buren Counties, $181,000.

Mich., Detroit—Dept. Pub. Wks. received lowest 3 bids paving (a) Algonquin Ave. from Avondale to Essex Aves., 26 ft. wide, (b) Drexel Ave. from point 150 ft. south of Korte Ave. to Essex Ave., 26 ft. wide, (c) Ellsworth Court from Lenox to Newport Aves., 30 ft. wide, (d) Eastlawn Ave. from point 550 ft. south of Korte Ave. to Essex Ave., 26 ft. wide, (e) Lenox Ave. from Korte to Essex Ave., 26 ft. wide, (f) Navahoe Ave. from Avondale to Essex Aves., 24 ft. wide, (g) Newport Ave. from point 600 ft. south of Korte Ave. to Essex Ave., 26 ft. wide, (h) Piper Blvd. from point 400 ft. south of Korte Ave. to Freud Ave., 26 ft. wide, (i) Pasadena Ave. from Herman to 12th Sts., 24 ft. wide, (j) Ravenswood Ave. from Yosemite to Grand River Aves., 26 ft. wide, from Detroit Asphalt Paving Co., 20 McGraw Bldg., (a) $12,212, (b) $23,989, (c) $24,192, (d) $28,953, (e) $21,478, (f) $11,381, (g) $30,706, (h) $44,422, (i) $15,088, (j) $11,465; W. B. Brady Constr. Co., 1972 Grand River Ave., (a) $12,644, (b) $24,849, (c) $25,067, (d) $29,979, (e) $22,245, (f) $11,765, (g) $31,902, (h) $46,515, (i) $15,220, (j) $11,370; Cleveland Trinidad Paving Co., 2940 Woodward Ave., (a) $12,827, (b) $25,206, (c) $25,444, (d) $30,412, (e) $22,568, (f) $11,934, (g) $32,344, (h) $47,077, (i) $15,005, (j) $11,493. Noted Feb. 6.

★**Mich., Detroit**—City let contracts, to Detroit Asphalt Paving Co., 20 McGraw Bldg., paving Distel Ave., from Fort to Olivet Sts., cost, $8995, Gartner Ave. from Beard St. to Lawndale Ave., $54,052, Senator Ave. from Beard St. to Lawndale Ave., $52,817; E. Meredith Co., 145 Harper Ave., Alley No. 985 between Lawton, Linwood, Lothrop and Northwestern Aves., $4635, No. 986 between La Salle Blvd., 14th St., Grand Blvd. and Lothrop Ave., $4199, No. 987 between Elmwood, Moran, Medbury Aves. and Grand Blvd., $4257; Corrick Bros., 507 Owen Bldg., Alley No. 988 between Maxwell, Seminole, Canfield and Forest Aves., $3697, No. 990 between Field, Sheridan, Gratiot and Forest Aves., $4205; Talbor Co., Penobscot Bldg., Alley No. 989 parallel to Michigan Ave. between 24th and 25th Sts., $1793. Noted May 15.

★**Illinois**—State Highway Comn., Springfield, let contracts paving roads in following counties:

(a1) Schuyler Co., 2571 ft. Sect. F, Route 1, 10 ft. wide;

(a2) 2192 ft. Sect. G, Route 2, 10 ft. wide;

(b) Warren Co., 3741 ft. Sect. G, Route 11, 16 ft. wide;

(c) Carroll Co., 2825 ft. Sect. D, Route 8, 16 ft. wide;

(d, Will Co., 10,001 ft. Sect. G, Route 13, 18 ft. wide;

(e) Cumberland Co., 11,300 ft. Sect. E, Route 1, 10 ft. wide;

(f) Christian Co., 6.3 mi. Sect. I, J, K, L and M, 15 ft. wide;

(g1) Hancock Co., 13,000 ft. Sect. I, Route 1, 24 ft. wide;

(g2) 12,600 ft. Sect. J, Route 13, 24 ft. wide;

(h) Marshall Co., 22,810 ft. Sect. F, Route 9, 24 ft. wide;

(i) Pope Co., 9 concrete bridges, Sect. D, Route 1 and 3;

(j) Hamilton Co., 1 concrete bridge, Sect. C, Route 6;

(k) Scott Co., 1 concrete bridge, Sect. H, Route 1A;

(l) Massac Co., 5 concrete bridges, Sect. G, Route 3, to

H. C. Holmes, Macomb, (a1) $5074; (a2) $5576.

E. A. Lord Constr. Co., Monmouth, (b) $13,805; (c) $9725; (g1) $6986.

Powers Thompson Constr. Co., 221 South Chicago St., Joliet, (d) $29,067.

A. C. Loomis Co., Mattoon, (e) $17,945.

A. O. McCoy, Versailles, (f) $24,500.

Meckenson Bros., Hamilton, (g2) $8314.

J. Brogen, Eldred, (h) $17,548.

B. F. Clark & Son, 5052 Gates Ave., St. Louis, Mo. (i) $2300.

Parnham Constr. Co., 3029 Waverly Ave., East St. Louis (j) $4997.

T. Whitlock, Exeter, (k) $2400.

J. R. Sleeter, Metropolis, (l) $3900.

Noted May 15.

★**Illinois**—State Highway Comn., Springfield, let contracts building following sections Dixie Highway, brick and concrete: Sect. 1, 2 and G-15d, to Bates & Rogers, 37 West Van Buren St., Chicago, $310,000; Sect. 4 and H-15d, to Cameron, Joyce & Co., Keokuk, Ia., $84,192 and $21,633 respectively; Sect. 5, to Bates & Rogers, 37 West Van Buren St., Chicago, $210,000; Sect. 6, Chicago Heights Coal Co., Chicago Heights, $134,370; Sect. K-15d, to Federal Paving Co., Chicago, $46,491; Sect. 7, to Embankment Co., Joliet, $144,110. Noted Apr. 3.

★**Illinois**—State Highway Comn., Springfield, let contracts building following sections Lincoln Highway: Sect. 1, G and 2, to Calumet Constr. Co., 100 West 115th St., Chicago, $158,000; Sect. L and 3, to Illinois Hydraulic Stone Co., Elgin, $103,300; Sect. 4, 5, 6 and 7, to J. O. Heyworth Co., 606 South Michigan Ave., Chicago, $363,227; Sect. G, 8 and 18, to Hart & Page, Rockford, $83,362; Sect. 9, to A. E. Rutledge, Rockford, $103,838; Sect. 14, to C. E. Heaps, Moline, $137,437; Sect. 15, 17 and H, to J. J. Dunegan, Shenandoah, Ia., $277,500. Noted Apr. 3.

★**Illinois**—State Highway Comn., Springfield, let contracts paving roads in following counties: Clark Co., 2000 ft. Sect. E, Route 7, 10 ft. wide;

(b) Greene Co., 1.6 mi. Sect. F and H, 24 ft. wide;

(c) De Witt Co., 4.9 mi. Sect. F and G, 24 ft. wide;

(d) Knox Co., 9300 ft. Sect. J, Route 6, 24 ft. wide;

(e1) Clay Co., 4100 ft. Sect. F, Route 6, 24 ft. wide;

(e2) 2705 ft. Sect. G, Route 6, 24 ft. wide;

(f1) Cook Co., 5413 ft. Sect. 57, Route 1, 18 ft. wide;

(f2) 20,276 ft. Sect. 58, Route 11C and 6B, 18 ft. wide;

(g1) Cass Co., 1063 ft. Sect. I, Route 2, 10 ft. wide;

(g2) 2806 ft. Sect. J, Route 7, 10 ft. wide;

(h) White Co., 0.8 mi. Sect. D, 10 ft. wide;

(i1) Champaign Co., 3440 ft. Sect. K, Route 2, 10 ft. wide;

(i2) 5532 ft. Sect. L, Route 5, 10 ft. wide to

J. W. Etchinson, Casey, (a) $7[illegible].

J. Bogan, Eldred, (b) $12,657.

W. C. Meneely, Frankford, Ind., (c) $11,200.

E. A. Lord Constr. Co., Monmouth, (d) $4286.

L. V. Chesrom, Olney, (e1) $2139.

White & Braley, Litchfield, (e2) $2912.

M. Foley Co., Evanston, (f1) $17,697.

Eclipse Constr. Co., Winnetka, (f2) $65,242.

E. C. Trowbridge, Chandlerville, (g1) $1900; (g2) $6190.

P. R. Blood, Grayville, (h) $6392.

Stipes & Pilcher, Champaign, (i1) $13,486; (i2) $20,501. Noted May 15.

★**Illinois**—State Highway Comn., Springfield, let contracts paving roads in following counties. Cook Co., 919.6 ft. Sect. 56, Route 15, to F. Lorenz, Oak Glen, $5092; Crawford Co., 1295 ft. Sect. E, Route 5, to J. W. Etchison, Casey $8687; La Salle Co., 4400 ft. Sect. L, Route 11, to E. Berns & Co., 601 Lombard Bldg., Indianapolis, Ind., $17,071; McLean Co., 9800 ft. Sect. F, Route 7, to States Constr. Co., 79 West Monroe St., Chicago, $27,416 and 927 ft. Sect. E, Route 7, to R. N. Jenkins, Belleflower, $1080; Henry Co., 31,556 ft. Sect. E, Route 6 and 5200 ft. Sect. F, Route 8, to Cameron, Joyce & Co., $24,100; Rock Island Co., 19,984 ft. Sect. E, Route 8, to White & Braley, Litchfield, $9046; Piatt Co., 2900 ft. Sect. D, Route 5 and 2800 ft. Sect. E, Route 5, to W. F. Lodge, Monticello, $9455 and $9382 respectively. Noted May 1.

Ill., Chicago—Cook Co. received bids building (a) 21,304 lin.ft. road, in Northfield, Wheeling and Main Twps. extending south from Desplaines River Rd. and Milwaukee Ave., 18 ft. roadway, 6 ft. earth shoulders; (b) 27,960 lin.ft. in Main and Leyden Twps., extending south from Desplaines River Rd. at south limits of Desplaines Village, 18 ft. roadway, 6 ft. earth shoulders; (c) in combination; (1) Portland cement concrete; (2) asphalt on concrete base, from R. F. Conway Co., 133 West Washington St., (a1) $103,961; (a2) $124,417; (b1) $154,969; (b2) $179,045; (c1) $255,782; (c2) $300,563; Standard Paving Co., 29 South La Salle St., (a1) $110,042; (b1) $160,977; Ready & Gallaghan, 133 West Washington St., (a1) $108,542; Mellon-Stuart-Nelson Co., 208 South La Salle St., (c1) $254,055; J. A. Ross & Co., 4561 Armitage Ave., (c1) $260,441; Amer. Asphalt Paving Co., 133 West Washington St., (c2) $328,706. Noted May 8.

★**Ill., Chicago**—Cook Co. let contracts building 22,729 lin.ft. Chicago-Waukegan-Milwaukee Rd. extending north from Dempster St., Morton Grove Village, to Eclipse Constr. Co., Winnetka, $131,442; 10,241 lin.ft. Chicago-Waukegan-Milwaukee Rd. extending north from Milwaukee Ave., Niles Village and on 4 blocks Irving Park Blvd. from 60th to 64th Aves., to Blase & Gerken, Chicago, $47,949, and $11,723 respectively. Noted May 15.

★**Ill., Danville**—Vermilion Co. let contracts building bond roads, concrete and brick, 10 ft. wide, together with all grading, draining, shaping, rein.-con. work, etc., Sect. A-1 and A-3, to J. P. Casey Co., Chicago, $36,903 and $41,939 respectively; Sect. C-1, to M. H. Lewis, Hoopeston, $73,650; Sect. A-2 and B-3, to C. W. Clark, Clinton, Ind., $99,982 and $37,748 respectively; Sect. A-5, to H. C. Finley Constr. Co., Hoopeston, $81,565. Noted Apr. 10.

Ill., Danville—Vermilion Co. received bids May 1, building bond roads, concrete and brick, 10 ft. wide, together, with all grading draining, shaping, rein.-con. work, etc., Sect. B-1, from C. W. Clark, Clinton, Ind., $53,926; Sect. B-1, B-2, C-2 and A-9, from J. P. Casey Co., Chicago, $73,796; $63,313; $66,291 and $92,503 respectively; Sect. B-1, from M. H. Lewis, Hoopeston, $77,868; Sect. B-2 and C-2, from H. C. Finley Constr. Co., Hoopeston, $56,194 and $60,947 respectively; Sect. A-7, from J. W. Etchison, Casey, $33,108; Sect. B-7 and C-7, from Goggin Constr. Co., Arcola, $52,676 and $42,582 respectively. Noted Apr. 10.

★**Ill., Rockford**—Winnebago Co. let contract building 1886 ft. Grant Highway, Sect. I, 18 ft. wide, to R. P. Beckstrom, 208 Trust Bldg. About $10,624. Work involves 3880 sq.yd. vitr. brick on concrete base and 990 cu.yd. earth excav.

Wis., Sheboygan—City received bids grading and paving with metropolitan brick also constructing sidewalks with combined curb and gutter on 1.7 mi. Wisconsin Ave., 20 ft. wide, from J. Brown Co., Pennsylvania Ave., $11,988; Pestier & Naumer, 1130 Ontario Ave., $10,855. Noted May 1.

Wis., Sheboygan—City received bids grading and paving with concrete also constructing sidewalks with combined curb and gutter on 1.1 mi. Lighthouse St. from North 2nd to Bayview Addition, 20 ft. wide, from J. Brown Co., Pennsylvania Ave., $10,890, Pestier & Naumer, 1130 Ontario Ave., $11,570. Noted May 1.

★**Wis., Sheboygan**—Sheboygan Co. let contract to Murphy Constr. Co., North 8th St., Manitowoc, grading and paving 25 mi. Plymouth-Sheboygan Falls Rd., 16 ft. wide, involving 20,988 sq.yd. concrete, 5,315 cu.yd. earth excav., and 171 cu.yd. concrete culverts, etc., total cost, $30,000.

Streets and Roads (continued)

bridges and 1 concrete deck girder bridge, $10,780; Pickus Eng. & Constr. Co., 414 Davidson Bldg., Sioux City, 4 concrete box culverts, $6216. Work involves 1366 cu.yd. rein.-con. 35 tons structural and 37 tons reinforcing steel and 2530 lin.ft. wooden piling.

★**Ia., Clarion**—Comrs. Wright Co. let contract grading and building culverts on 11½ mi. road, 24 ft. wide, to R. Condon, 3624 South 26 th St., Omaha, Neb., $19,485. Work involves placing and covering temporary culverts, $0.25 per lin.ft. and 42,489 cu.yd. excav., $0.46 per cu.yd.

★**Ia., Hartley**—Town let contract paving, curbing and guttering 5 mi. various streets, 24-80 ft. wide, to Ford Paving Co., 802 2nd Ave., Cedar Rapids, $292,035. Work involves 1348 sq.yd. 6 in. plain concrete, $2.69 per sq.yd., 78,000 sq.yd. 2 in. asphaltic concrete on 5 in. concrete base, $2.77, 54,000 lin.ft. integral curbing and guttering, $1.15 and 18,500 cu.yd. earth excav., $0.75.

★**Ia., Marshalltown**—Bd. Supervs. Marshall Co. let contract grading, clearing, grubbing, removing and resetting fences and hedges and placing tile and temporary culverts on 9½ mi. Lincoln Highway, 24 ft. wide, involving 102,641 cu.yd. excav. to P. E. Shugart, Nevada, earth at $0.41, loose rock $1.25 and solid rock at $2.50.

★**Neb., Humphrey**—City let contract paving various streets, to A. Dodson, 3140 Sheridan Blvd., Lincoln, $55,740. Work involves 13,653 sq.yd. brick block on 5 in. concrete base and 3800 ft. combination curb and gutter. Noted Apr. 24.

★**Minn., Carlton**—Comrs. Carlton Co. let contract grading and graveling 4½ mi. road, 20 ft. wide, to Grau & Sailo, Kettle River. About $10,000.

★**Minn., Carlton**—Comrs. Carlton Co. rejected only bid received May 5, grading and graveling 8 mi. Federal Aid Project No. 17, 24 ft. wide. About $38,000. Work will be done by day labor. Noted Apr. 24.

★**Minn., Detroit**—Comrs. Becker Co. let contract graveling 4 mi. and grading 2 mi. Job No. 59, to M. W. Barnard, Detroit, $24,030. Noted Apr. 24.

★**Minn., Duluth**—City let contract grading 3100 ft. Winona St. from Woodland Ave. to Erving St., 55 ft. wide with 18 ft. roadway of macadam, to C. R. McLean, c/o City Engr's. Office, $10,236. Noted May 15.

★**Minn., Duluth**—City let contract paving with 1 course concrete and laying storm sewers on 2529 ft. 26th Ave., E., from 1st to 8th Sts., 20 ft. wide, to D. H. Clough & Co., 914½ East 1st St., $36,950. Noted May 8.

★**Minn., Eveleth**—City let contract paving 24,000 sq.yd. various streets and avenues, to Lawrence & McCan Co., Eveleth, $107,890. Work involves 24,000 yd. bitulithic concrete, 3000 lin.ft. each of concrete curb, gutter and sidewalk, 300 ft. 12-in. and 1800 ft. 24-in. pipe., etc.

★**Minn., Faribault**—Comrs. Rice Co. let contract building Job No. 1901, State Rd. No. 17, to Peabody-Young Co., St. Paul, $27,811. Noted Apr. 17.

★**Minn., Long Prairie**—Comrs. Todd Co. let contract grading 4.8 mi. Job No. 26, State Rd. No. 6, 24 ft. wide, to H. Thursdale & Co., Long Prairie, $12,585. Noted Apr. 24.

Minn., Pipestone—Comrs. Pipestone Co. received only bid May 6, grading 13½ mi. Job No. 1901, State Rd. No. 5, from H. Eining, Jasper, $25,000. Noted May 1.

★**Neb., Beatrice**—Gage Co. let contract grading 29 mi. Federal-aid roads from here to Fairbury, involving 145,000 yd. grading, to Lamoreaux Bros., 805 Brandeis Theatre Bldg., Omaha, $49,875; culverts for work, to E. H. Knowland, Fairbury, $11,000.

★**Neb., Fremont**—Dodge Co. let contract grading 35 mi. Federal Aid Rd. from here to Cersco, involving 145,000 yd. grading, to Lamoreaux Bros., Brandeis Theatre Bldg., Omaha, about $53,000.

★**Neb., Humphrey**—City let contract paving various streets, to A. Dodson, 3140 Sheridan Blvd., Lincoln, $55,740. Work involves 13,653 sq.yd. brick block on 5 in. concrete base and 3800 ft. combination curb and gutter. Noted Apr. 24.

★**Neb., Omaha**—Douglas Co. let contract repaving 2000 ft. 24th St. from Spaulding to Ames Sts., 40 ft. wide, involving 6924 sq.yd. vitr. brick blocks, 770 cu.yd. of concrete for repairing base, also resetting 2500 lin.ft. of curbing, to C. Fanning, 16th and Dodge Sts., $19,020.

★**Neb., Ralston**—City let contract paving and curbing 1½ mi. streets with 6 in. granite concrete, to Bauer & Johnson, 201 Farnam Bldg., Omaha, $60,650. Plans include paving of 77th St. from Main to Highland Sts., Oakwood St. from 75th to 77th Sts., 75th St. from Main to Oakwood Sts.; Maywood St. from Main to 80th St., 78th St. from Oakwood to State Sts. and State St. from 79th St. to Miller Ave., 20-40 ft. wide. Work involves 20,000 sq.yd. 6 in. granite concrete and 15,000 lin.ft. granite concrete curbing.

★**Mont., Billings**—City let contract paving North 31st St., bitulithic, to Warren Constr. Co., Journal Bldg., Portland Ore., $42,161. Noted Apr. 24.

★**Ark., Marion**—Comrs. Crittenden Co. let contract to Roach and Stansell, North Main St., Memphis, Tenn., grading, draining and surfacing 28 mi. highway in Rd. Impvt. Dist. No. 5, 14 ft. wide, involving 26,400 sq.yd. bituminous macadam at $0.30 per sq.yd. and 102,000 cu.yd. earth excav. at $0.45 per cu.yd.

★**Tex., Dallas**—City let contract, to Texas Bitulithic Co., 1101 Praetorian Bldg., paving Throckmorton St. from Cedar Springs to Maple Ave., cost, $24,224; Reagan St. from Cedar Springs to Maple Ave., $23,585 and Knight St. from Cedar Springs to Brown Sts., $14,800. Noted May 1.

★**Tex., Fairfield**—Comrs. Freestone Co. let contract grading, macadamizing and building rein.-con. bridges and culverts on 2.79 mi. Highway No. 7, running northwest from Teague toward Fairfield, 16 ft. wide, to McElwrath & Rogers, Corsicana, $21,464. Noted May 1.

★**Tex., San Antonio**—City let contract paving Ave. D from 3rd to 10th Sts., to Uvalde Rock Asphalt Co., Swearingen Bldg., San Antonio, about $15,000.

★**Wash., Colfax**—Whitman Co. let contract hard surfacing 8.4 mi. highway from Oakesdale to Rosalia, to C. H. Green, North 517 Lincoln St., Spokane, $63,500; 9.25 mi. Highway No. 6-A, southwest of Colfax, to Ristvedt & Bragg, Colfax, $70,555; 7.75 mi. Miller Rd., 2 mi. south of Colfax to near Palouse, to Clifton, Applegate & Toole Co., Hutton Bldg., Spokane, $95,300. Noted Apr. 24.

★**Wash., Dayton**—Comrs. Columbia Co. let contract hard surfacing 1½ mi. permanent highway from Judson's Hollow to Gaines Place, to Wilson & O'Rourke, Walla Walla, $16,534.

★**Wash., Everett**—Comrs. Snohomish Co. let contract grading and paving 1.25 mi. Marysville-Pilchuck Rd., Permanent Highway No. 34, 18 ft. wide, and 1 mi. Lowell-Snohomish Rd., Permanent Highway No. 35, 18 ft. wide, to Kaiser Paving Co., Everett, $31,961 and $27,730 respectively; 1 mi. Lowell-Snohomish Rd., Permanent Highway No. 36, 18 ft. wide, to T. M. Morgan, 3202 Laurel Dr., Everett, $23,982; 1.7 mi. Three Lakes Rd., Permanent Highway No. 37, 16 ft. wide, to J. W. Hoover Co., 1607 Hoyt St., Everett, $35,225. Noted May 1.

★**Wash., Mt. Vernon**—City let contract paving and building sidewalks on 6 blocks of 6th and Lawrence Sts., 20 ft. wide, involving 27,100 sq.yd. concrete, to Skagit Constr. Co., Mt. Vernon, $15,221. Noted Apr. 3.

Wash., Seattle—Bd. Pub. Wks. received bids May 9, building sidewalks on (a) 29th Ave., et al, involving 8821 sq.yd. concrete; (b) 13th Ave. S., et al, 4120 sq.yd. concrete, 5000 ft. wood curbing and 1000 cu.yd. excav.; from Goetz & Brennan, Seattle, (a) $16,238; S. A. Moceri, 1212 South M. St., (a) $16,800; Coluccio & Niblett, Seattle, (a) $16,890, (b) $10,768; W. H. Smith, Builders Exch. Bldg., (b) $10,331; D. H. Traphagen, Seattle, (b) $10,988.

★**Wash., Seattle**—Bd. Pub. Wks. let contract filling, paving, building sewers and water mains in Holgate St., et al, involving 62,250 cu.yd. grading, 3490 sq.yd. concrete and 641 ft. 12 and 18 in. pipe, to Stillwell Bros., Boston Blk., $29,588.

★**Wash., Seattle**—Comrs. King Co. let contract grading and paving 1.303 mi. Seattle-Renton, Permanent Highway No. 23, 20 ft. wide, concrete, to Seaboard Constr. Co., Seattle, cost $34,725; 1.202 mi. Houghton-Bellevue Permanent Highway No. 2 "L," 20 ft. wide, concrete, to J. L. Smith, 1902 North Prospect St., $20,450; 1.988 mi. Auburn-Enumclaw, Permanent Highway No. 11D, 20 ft. wide, concrete, to T. M. Morgan, 3202 Laurel Dr., Everett, $59,857. Noted May 1.

★**Wash., South Bend**—Comrs. Pacific Co. let contract, to Philbrick & Stratton Raymond, paving 1.8 mi. Natl. Park Highway from Nalpee to Stauffer's Bridge, 9 ft. wide concrete, cost $20,156; 1.76 mi. Natl. Park Highway from Menlo to Giesey's Crossing 9 and 18 ft. wide, concrete, $22,127; to K. L. Goulter, South Bend, surfacing 5 mi. Natl. Park Highway from Bear River Bridge to Nasel River, involving 25,210 cu.yd. grading, 7970 cu.yd. solid rock and 398,980 cu.yd. embankment, $38,990.

★**Wash., Spokane**—Comrs. Spokane Co. let contract building 2 mi. permanent highway from Spokane to Ft. George Wright, to C. M. Payne, East 724 Mission Ave., $13,990. Noted Apr. 10.

★**Wash., Tacoma**—Comrs. Pierce Co. let contract grading and paving 2 mi. Permanent Highway 5D, 16 ft. wide, involving 4332 cu.yd. grading and 18,198 sq.yd. 6½-in. concrete, to J. Worter, Tacoma, $42,250; 1 mi. Permanent Highway 5E, 16 ft. wide, 9049 sq.yd. 6½-in. concrete, to T. M. Morgan, 3202 Laurel Dr., Everett, $26,000.

★**Wash., Wenatchee**—Comrs. Chelan Co. let contract paving Columbia River and Wenatchee River bridges to Sengfelder & Burke, 1321 9th Ave., Spokane, $9732 and $2108 respectively. Noted May 8.

★**Oregon**—State Highway Comn., Salem, let contract improving 5.5 mi. road from Junction City to Benton Co. line, to Washburn & Hall, Lebanon, $45,254. Work involves 16,000 cu.yd. earth excav. and 11,500 cu.yd. rock surfacing.

★**Oregon**—State Highway Comn., Portland, let contracts grading and macadamizing 1 mi. Pacific Highway, Comstock-Pass Creek Sect., Douglas Co., broken stone, to A. Anderson, Grants Pass, $13,680; 1.2 mi. Oakland South Sect., Douglas Co., screened gravel, to J. Hakanson, North Bend, $26,365; 3.24 mi. Monroe-Lane Co. line, Benton Co., screened gravel, to Supervs. Benton Co., Corvalis, $33,080; paving 4.9 mi. Eugene-Goshen Sect., Lane Co., bitulithic "F" on gravel base, to G. F. Pyle, Eugene, $98,892; 14.8 mi. Greene Springs Mt. Rd.-California Line, Jackson Co. and 5.85 mi., Ashland-Green Springs Mt. Rd., Jackson Co., both bitulithic "F," to O. Huber, Portland, $286,214 and $185,340 respectively; grading and paving 12.2 mi. Gold Hill-Josephine Co. Line Sect., Jackson Co., bitulithic "E," to Shell-Calvert Co., Rosebury, $274,204; 6.5 mi. Old Oregon Trail, Island City-La Grande-Hot Lake Sect., Union Co., and 4.3 mi. West Side Highway, Hillsboro-Forest Grove Sect., Washington Co., both bitulithic "E," to Warren Constr. Co., Journal Bldg., Portland, $131,183 and $93,800 respectively. Noted May 8.

Oregon—State Highway Comn., Salem, received bids May 6, improving 7.6 mi. Pacific Highway, Sexton Mountain Sect., Josephine Co., involving 118,000 cu.yd. earth excav., from H. J. Hildeburn, Rosebury, $125,055; L. O. Herrold, Portland, $125,857; A. Giebisch, Portland, $132,918; 7.2 mi. Pacific Highway, from Jacques Pl. to Johns Pl., Douglas Co., involving 28,000 cu.yd. earth excav. and 11,200 cu.yd. rock surfacing, from J. T. Logan, Medford, screen gravel, $74,942; broken stone, $77,182. Noted May 8.

Ore., Portland—City received bids Apr. 30, improving (a) East 39th St.; (b) Francis Ave.; (c) East 29th St.; from Cochran Bros., Portland, (a and b) $17,211; (c) $15,485; S. Simonsen, Portland, (a and b) $17,520; (c) $14,633; Warren Constr. Co., Journal Bldg., (a and b) $17,423; (c) $14,160. Noted May 8.

★**Cal., Lodi**—City let contract paving with macadam and building concrete curbs on 1 mi. Locust Ave. and 5 blocks Lee Ave., to Clark & Henry Constr. Co., 38 South Sutter St., Stockton.

Cal., Manhattan Beach—City received bids improving Ocean Ave., from F. W. Young, Manhattan Beach, $20,062; R. S. Matthews, $20,732; A. L. Auen, $24,201. Plans include grading, paving, cement curbs and walks and building water system. Noted Apr. 24.

★**Cal., Santa Barbara**—City let contract improving Sola St. between De La Vina and Bath Sts., to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $12,711. Plans include grading, 4 in. concrete paving with 1½ in. warrenite surface, cement curbs and gutters, etc. Noted Apr. 24.

★**Ont., Orillia**—Town let contract paving 43,000 sq.yd. bitulithic finish pavement on 5 or 6 in. base, with concrete curbs and gutters, to Warren Bituminous Paving Co., McKinnon Bldg., Toronto. About $180,000 Noted Mar. 13.

Streets and Roads (Continued)

★**Ont., Saul Ste Marie**—City let contract for 23,000 sq.yd. bitulithic finish pavement on 5 or 6 in. base, with concrete curbs and gutters, to Warren Bituminous Paving Co., McKinnon Bldg., Toronto. About $126,000.

Railways

PROPOSED WORK

Ohio—Mahoning & Shenango Ry. & Light Co., Boardman and Champion Sts., Youngstown, plans to build single track railway on sections of Rigby, Garland and Shelby Sts. Work involves 103 lb. girder rail, steel ties on 7 in. concrete base, welded rail joints and steel poles and 1 passing siding. About $76,610. J. B. Stewart, supt.

Excavation and Dredging

PROPOSED WORK

O., Kenton—Excavation—Upper Scioto River Drainage and Conservancy Dist., soon receives bids improving channel and building levee along Scioto River through here. Work involves 2,250,000 cu.yd. earth and 10,000 cu.yd. rock excav., dipper dredge and drag line work. S. K. Young, c/o Miami Conservancy Dist., Monument and Jefferson Sts., Dayton, engr.

Mich., Buena Vista—Drain—Comrs. Saginaw Co. plan to build Kohler Drain in Buena Vista Twp., 5¾ mi. long, average cut 5 ft., bottom widths 6, 8 and 10 ft. About $25,000.

Mich., Saginaw—Drain—Comrs. Saginaw Co. (Saginaw), Bay Co. (Bay City) and Tuscola Co. (Caro), plan to build 5¼ mi. drain, bottom width 20 ft., average cut 5-13 ft., to be known as Quarter Line Drain. About $50,000. G. R. Endert, Saginaw, engr.

Ia., Ft. Dodge—Excavation—See "Streets and Roads."

Ore., Heppner—Irrigation—Morrow Co. having preliminary plans prepared for system to irrigate 122,000 acres in northern part of county to be known as John Day Irrigation Project. About $20,000,000. Federal Government and State will be asked to appropriate toward cost.

Cal., Oakdale—Irrigation—South San Joaquin Irrigation Dist. plans election to vote on $500,000 bonds to complete irrigation system and replace Hills Sagwood flume with concrete.

BIDS DESIRED

N. Y., New York—Dredging—Until May 28, by M. Hulburt, comr. docks, Pier "A," Battery Pl., furnishing all labor and material for dredging in West 46th St., North River, Contr. 1614.

Pa., New Castle—Excavation—Until June 3, at office of C. E. Brown, city clk., for change, alteration and relocation of course of channel of Neshannock Creek within city; also widening same and re-establishing line on west or right bank of said creek, between Rosena Furnace Dam and point on bridge over creek, also building cement wall along right bank of same; advertised in this issue. Noted Feb. 13.

Fla., Sanford—Ditch—Until June 3, by Comrs. Seminole Co., building 9.18 mi. ditches, involving 58,660 cu.yd. excav., in Jessup D. D. E. A. Douglass, clk.

Miss., Marks—Dredging—Until June 5, by Comrs. Newsum Lake D. D., for floating dredge work and levee with automatic sluiceways in Quitman and Tallahatchie Counties. L. W. Mashburn, Clarksdale, engr. H. D. Glass, pres. Noted Apr. 17.

Ia., Wapello—Dredging—Until June 10, by Muscatine-Louisa D. D. No. 13, at office of Aud. Louis Co., for steam driven pumping plant containing one 36 in. and one 24 in. double suction centrifugal pump. Bids will also be received for building to house this plant. Elliott & Harman Eng. Co., Peoria, Ill., engrs.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. J., Union Hill—Excavation—Bd. Educ. received lowest 3 bids for excavation work for school No. 2 on Hudson Ave. and 2nd St., from E. Hornung, West Hoboken, $5000, extra work, $5.00 per cu.yd.; R. Mazzoni, West New York, $8300, extra work $3.70 per cu.yd.; A. Caponi, West Hoboken, $8400, extra work $1.50 per cu. yd. Noted Mar. 13 under "Buildings."

★**Ia., Marshalltown**—Excavation—See "Streets & Roads."

★**Kan., Marion**—Excavation—Cottonwood Valley D. D. let contract improving Cottonwood River, to Yale-Reagen Co., 111 West Washington St., Chicago, $253,273. Noted Apr. 17.

★**Mont., Three Forks**—Drain and Dike—Madison Drain & Dike Dist. let contract building drain and dike, involving 135,000 cu.yd. earth excav., to N. Story, Jr. Bozeman, $45,929.

Industrial Works

PROPOSED WORK

Mass., Attleboro—W. R. Walker & Son, archts., 17 Custom House St., Providence, R. I., soon receive bids building 1-story, 60 x 140 ft. brick and mill construction machine shop, rein.-con. flooring, concrete foundation, for F. Mossberg Co., c/o architects. About $25,000.

Mass., Fall River—Fall River Dairy Co. plans to build dairy on Bedford and Quarry Sts. About $50,000. C. P. Doris, pres. Architect not selected.

Conn., Bridgeport—City appropriated $150,000 to build garage on Washington Ave. J. A. McElroy, city engr.

Conn., Bridgeport—Fletcher-Thompson, Inc., engrs., 1089 Broad St., soon receive bids building 1-story, 65 x 100 ft. and 1-story, 60 x 65 ft. brick ice plants; also 1-story, 100 x 150 ft., rein.-con. cold storage building, rein.-con. flooring, concrete foundation, on Seaview Ave., for Peoples Ice Co., c/o F. E. Ballard, 44 Wood Ave. About $150,000.

Conn., Bridgeport—Fletcher-Thompson, Inc., engrs., 1089 Broad St., soon receive bids building 2 story, 65 x 190 ft. steel, and 1 story, 26 x 26 ft. rein.-con. factory, rein.-con. flooring, concrete foundation, on Benham Ave., for Nichols Underwear Corp., James St. and Linen Ave. About $100,000.

Conn., Bridgeport—Maloney & Krokstedt, archts., 925 Main St., soon receive bids building 2-story triangular shape rein.-con. garage, rein.-con. flooring, concrete foundation, on Fairfield Ave. About $50,000. Owners name withheld.

Conn., Hartford—L. Herrup, 1052 Main St., purchased site at 90 Pearl St. and plans to erect furniture building. Cost to exceed $50,000. Architect not selected.

Conn., New Haven—Triangle Garage Co., Inc., c/o C. A. White, 1024 Chapel St., having plans prepared for 1-story, 51 x 56 x 43 x 58 ft. service station and garage and 20 x 28 ft. office, brick and steel, rein.-con. flooring, concrete foundation, on Middletown Ave. and Ferry St.

Conn., New London—Sidney Mfg. Co., 420 Bank St., purchased site on Shapeley St. and plans to build 4-story factory. About $60,000.

N. Y., Binghamton—Bd. Pub. Wks. plans to build shops, sheds, barns and trestle on upper Court St. About $65,000. J. A. Giles, comr.

N. Y., Border City—Empire Gas & Electric Co., 103 Castle St., Geneva, purchased 100 acre site adjacent to plant here and bordering on Cayuga and Seneca Canals, and plans to build terminal and pumping station with 2 motor driven pumps, 2,500,000 gal. daily capacity, and 10-in. pipe line in excess of 1 mi. in length.

N. Y., Long Island City—S. Blickman, 199 Lafayette St., New York City, having revised plans prepared by H. Balcom, archt., 10 East 47th St., New York City, for 6 story, 132 x 200 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Nott, Manly, Anable and Mount Sts., here. Noted Dec. 5.

N. Y., New York—Fifteenth St. Garage Corp., 412 5th Ave., soon lets contract building 2 story, 100 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 534 West 39th St. through to 535 West 38th St. About $75,000. J. S. Maher, 431 West 14th St., archt.

N. Y., New York—Morania Realty Co., 427 West 14th St., soon lets contract building 2-story, 92 x 200 ft. brick and steel garage, rein.-con. flooring, brick foundation, on 18th St., near 10th Ave. About $100,000. J. S. Maher, 431 West 14th St., archt.

N. Y., Watertown—Northern Oil & Fuel Co., 469 Coffeen St., plans extensive additions to plant, to include 2-story, 100 x 375 ft. mill construction warehouse, cost between $20,000 and $30,000; installation of two 50,000 gal. oil and gasoline tanks and completely equipped testing laboratory for handling tests of gasoline, oils and greases. Address G. W. Lane, genl. mgr.

Pa., Blairville—See "Buildings."

Md., Baltimore—M. & S. Shoe Co., 500-16 East Lombard St., plans to build 3-story, 75 x 180 ft., concrete and brick factory, brick and concrete foundation, on Oliver St., near Guilford Ave. About $75,000. Architect not selected.

Md., Baltimore—Zell Motor Car Co., 11-15 East Mt. Royal Ave., soon receives bids building 3-story, 60 x 70 ft., rein.-con. and brick, auto storage and repair shop, brick and concrete foundation, on Mt. Royal Ave. About $50,000. E. H. Glidden and T. W. Pietsch, 1210 Amer. Bldg., archts.

Md., Ellicott City—C. A. Gambrill Mfg. Co., 109 Commerce St., Baltimore, having plans prepared by A. E. Baxter Eng. & Appraisal Co., engrs., Ellicott Sq., Buffalo, for 2-story rein.-con. warehouse, wheel-pit and machine shop, rock foundation, here. Cost between $55,000 and $60,000.

Ky., Louisville—O'Conner Estate, c/o J. J. Gaffney, archt., having plans prepared for 3 story, 64 x 204 ft. steel garage on 3rd and Liberty Sts. About $50,000. N. Bosler, c/o Tyler Hotel, 3rd and Jefferson Sts., lessee.

O., Cleveland—Leonard Electric Mfg Co., 433 Champlain Ave., had plans prepared by G. S. Rider Co., archts., 601 Century Bldg., for 2-story, 86 x 115 ft., concrete, steel and brick factory, at 3907 Perkins Ave. About $60,000.

Ind., Ft. Wayne—Wayne Knitting Mills Co., having plans prepared by Lockwood, Green & Co., engrs., 38 South Dearborn St., Chicago, Ill. for 4-story, 85 x 150 ft. brick and rein.-con. knitting mill, rein.-con. flooring. About $120,000.

Ind., Indianapolis—G. & J. Tire Co., 549 East Georgia St., having plans prepared by Lockwood, Green & Co., engrs., 38 South Dearborn St., Chicago, Ill., for 5-story, 100 x 400 ft. factory and 45 x 60 ft. boiler house, rein.-con., rein.-con. flooring, concrete foundation. About $950,000.

Mich., Detroit—Detroit Seamless Steel Tube Co., Jefferson Ave. W. and 19th St., had plans prepared by A. Kahn, archt., Marquette Bldg., for concrete, brick and steel plant. Plans include three 20 x 90 x 550 ft., manufacturing units, 70 x 100 ft. heating plant and 2 story administration building, concrete foundation. About $3,000,000.

Mich., Highland Park (Detroit P. O.)—Ford Motor Co. soon lets contract constructing 4 story, 80 x 260 ft., rein.-con., brick and steel service station, rein.-con. flooring, concrete foundation on Woodward Ave. A. Kahn, Marquette Bldg., Detroit, archt.

Mich., Jackson—Amer. Oil Corp., Belden Rd., had plans prepared by H. R. Graf, archt., Jackson, for 1-story, 74 x 120 ft., rein.-con. steel and brick plant, and 30 x 40 ft. concrete boiler house, rein.-con. flooring, concrete foundation.

Mich., Mt. Pleasant—Transport Truck Co. had plans prepared by J. J. Bachman, archt., Flint, for 40 x 50 ft. power plant and 150 x 300 ft. assembly plant, brick and steel, concrete foundation. About $80,000. Noted. Aug. 15.

Ill., Chicago—Bunte Bros., 730 West Monroe St., having plans prepared by Schmidt, Garden & Martin, archts., 104 South Michigan Ave., for 2-story, 75 x 125 ft. rein.-con. garage, rein.-con. flooring, concrete foundation, at 700 West Monroe St. About $75,000.

Ill., Chicago—J. L. Kraft Bros. Cheese Co., 359 River St., plans to build 6 story, 120 x 275 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Oak and Crosby Sts. About $500,000. Architect not selected.

Ill., Chicago—Natl. Tea Co., 2715 West North Ave., having plans prepared by J. B. Rohm & Son, archts., 138 North La Salle St., for 6 story, 120 x 125 ft. mill construction warehouse, rein.-con. flooring, concrete foundation, on Oak and Crosby Sts. About $275,000.

Ill., Chicago—Peacock Estate having plans prepared by Mundie & Jensen, archts., 39 South La Salle St., for 2 story, 250 x 325 ft. rein.-con. and brick factory and auto service station, rein.-con. flooring, concrete foundation, on 37th and Princeton Sts. About $650,000. Packard Motor Car Co., 2357 South Michigan Ave., lessee.

Ill., Chicago—See "Industrial Works."

Wis., Racine—Hamilton Beach Mfg. Co., Rapids Dr., having revised plans prepared for 2-story, 40 x 90 ft., brick warehouse. About $40,000. A. F. Flegel, 223 6th St., archt.

Wis., Superior—H. Lurye & Sons, 527 Tower Ave., soon lets contract building 3-story, 40 x 150 ft. concrete and brick factory. E. S. Radcliffe, U. S. Natl. Bank Bldg., archt.

Wis., Wausau—Peth Candy Co., had plans prepared for 4-story, 60 x 70 ft. brick and mill construction factory. About $50,000. Oppenhainer & Speer, Wausau, archts.

Industrial Works (Continued)

Wis., West Bend—West Bend Woolen Mills plans to build 3 story, 60 x 380 ft. rein.-con. and brick mill, rein.-con. flooring, concrete foundation. About $100,000. Lockwood, Greene & Co., 28 South Dearborn St., Chicago, engrs.

Kan., Hiawatha—Wolfley Automobile Co. plans to build 1-story, 55 x 140 ft., brick addition to garage, concrete foundation. About $50,000.

Kan., St. John—See "Water Works."

Mo., St. Joseph—Conser Laundry Co., 908 Francis St., having plans prepared by R. Meier, archt., 203 Lincoln Bldg., for 2 story, 122 x 153 ft., rein.-con. and brick laundry, rein.-con. flooring, concrete foundation, on 17th and Buchanan Sts. About $40,000.

Mo., St. Louis—National Barium & Chemical Co., 7338 Arlington Ave., plans to build chemical plant near Union St. and National bridge. Cost to exceed $50,000. O. Virden, pres.

Mo., St. Louis—Weber Automobile Co., 1900 Locust St., receives bids about June 1, building 3 story 150 x 250 ft., concrete factory, rein.-con. flooring, rock and concrete foundation, on 19th and Locust Sts. About $350,000. Architect not selected.

Okla., Newkirk—City election soon to vote on $110,000 bonds to build electric light plant and service lines.

Colo., Grand Junction—Miller & Smith, having plans prepared by E. G. Groves, archt., 222 Foster Bldg., Denver, for 100 x 125 ft. garage.

Ariz., Mesa—City plans election to vote on $60,000 bonds to build addition to gas plant and improve water system.

Cal., El Centro—Channel Commercial Co., 900 East 1st St., Los Angeles, purchased site on Commercial St. and plans to build 3-story, 140 x 150 ft., rein.-con. warehouse. About $75,000. Architect not selected.

Cal., Fresno—San Joaquin Baking Co., San Benito and P Sts., plans to build 2 story, 145 x 240 ft., concrete, plant on Land and Los Angeles Sts. F. D. Bradford, mgr.

Cal., La Verne (Mill Valley P. O.)—La Verne Orange & Lemon Growers Assn. plans to build packing house here. About $30,000.

Cal., Los Angeles—Anheuser-Busch Co., 9th and Pestalozzi Sts., St. Louis, Mo., plans to convert bottling plant on Main and Albion Sts., here, into ice factory and cold storage plant and build ice cream factory adjoining same. G. E. Wells, Alexandria Hotel, engr.

Cal., Stockton—J. Kroyer Mfg. Co. having plans prepared by F. V. Mayo, archt., 512 Farmers & Merchants Bank Bldg., for group of fireproof factories and 50 x 90 ft. office on Cherokee Lane. About $100,000.

Ont., Welland—Imperial Oil Co., 56 Church St., Toronto, purchased 3-acre site here and plans to build plant. About $40,000.

BIDS DESIRED

Mass., Gardner—Until May 28, by Lee & Hewett, archts., 1123 Bway., New York City, altering present 6 story factory here and building 4 story, 60 x 260 ft. and 3 story, 44 x 150 ft. brick, concrete and steel additions, rein.-con. flooring, concrete foundation, for Heywood Bros. and Wakefield Co.

N. J., Freehold—See "Buildings."

Pa., Pittsburgh—T. Hannah, archt., 209 9th St., receiving bids for 5 story, 80 x 100 ft. fireproof garage, rein.-con. flooring, concrete foundation, on Penn Ave. and 17th St., for 17th St. Garage Co.

Fla., Sarasota—Until June 9 by City Council, for all labor and material necessary for water and electric lighting plant and system. E. J. Messer, comr. pub. wks.

La., New Orleans—Until June 16, by Times-Picayune Publishing Co., 314 Camp St., building 4-story, 85 x 150 ft. steel and concrete plant, rein.-con. flooring, concrete foundation, on Camp and North Sts. M. H. Goldstein, Perrin Bldg., archt. Noted Apr. 17.

Wis., Lake Mills—Until July 1, by W. L. Fritz, Columbus, building 2-story, 60 x 200 ft. rein.-con. and brick, canning factory, brick foundation, on Main St., here. Cost between $50,000 and $60,000.

Wis., Lake Mills—Until June 15, by Wolfram Shoe Co., Watertown, building 2 story, 50 x 115 ft. rein.-con. and brick, shoe factory. About $60,000. Architect not selected.

DAM—GILBOA, N. Y.

Bids were received by Bd. Water Supply, Municipal Bldg., New York City, May 14, for constructing Gilboa dam, from (A) Winston & Co., 290 Bway.; (B) Hardaway Contg. Co., Columbus, Ga.; (C) P. McGovern, 50 East 42nd St.; (D) Warren, Moore & Co., Colonial Trust Bldg., Phila., Pa., $7,619,575; (E) MacArthur Bros., 120 Bway., $7,769,150. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
Stream control Schoharie Creek (lump sum)	$250,000 00	$150,000 00	$54,722 75
Stream control Steen Kill (lump sum)	30,000 00	35,000 00	10,575 00
Erecting maintaining and removing highway bridge (lump sum)	20,000 00	20,000 00	54,280 00
275,000 cu.yd. earth excavation for dam and spillway channel	1 10	1 10	2 15
21,000 cu.yd. earth excavation for core-wall and other trenches	4 00	2 00	2 50
100,000 cu.yd. earth excavation for highways and miscellaneous purposes	1 75	1 25	2 50
60,000 cu.yd. rock excavation for dam and spillway channel	4 00	4 00	5 45
2,500 cu.yd. rock excavation for highways and miscellaneous purposes	4 00	5 00	5 75
30,000 cu.yd. rock excavation from cut-off trench and when blasting is not permitted	7 00	9 00	11 50
500,000 cu.yd. refilling and embanking in 4-in. layers	1 00	1 40	1 25
70,000 cu.yd. refilling and embanking deposited through water	70	1 00	1 04
12,000 cu.yd. refilling and embanking with clean rock fragments	1 00	3 00	2 88
20,000 cu.yd. refilling and embanking by sluicing	80	1 00	58
15,000 cu.yd. refilling and embanking in bulk	80	1 00	46
480,000 bbl. Portland cement	3 00	3 15	2 60
378,000 cu.yd. cyclopean masonry	7 00	6 75	6 79
15,000 cu.yd. concrete masonry	10 00	9 00	9 78
25 cu.yd. reinforced concrete	30 00	20 00	20 70
20,000 cu.yd. rubble stone facing	17 00	15 00	17 25
6,000 cu.yd. edge stones for facing	24 00	35 00	23 00
50,000 sq.ft. face dressing of masonry	60	50	17
10,000 lin.ft. chisel drafts	50	50	04
300 sq.ft. flagging	1 00	75	29
500 cu.yd. rubble masonry in mortar	6 00	8 00	11 50
25,000 cu.yd. rubble paving in mortar or grouted	6 50	8 00	11 50
2,000 cu.yd. dry rubble masonry	5 00	7 00	12 65
16,000 cu.yd. slope paving	5 00	7 00	4 60
2,000 cu.yd. gutter paving	6 00	9 00	13 80
7,000 cu.yd. crushed stone and gravel	2 00	3 25	2 30
1,000 cu.yd. grout	15 00	8 00	17 25
3,500 lin.ft. drilling core borings	6 00	5 00	4 60
5,000 lin.ft. drilling small holes in rock or masonry	1 00	1 50	19
30 tons cast-iron pipes and special pipe castings	150 00	160 00	115 00
3,000 lb. reinforcing steel	07	07	08
140,000 lb. iron and steel	10	10	12
6,000 lb. miscellaneous bronze, brass and copper	75	1 50	1 15
35,000 lb. furnishing and placing small steel pipes	25	10	12
100,000 lb. caring for and setting metal-work furnished by city	04	04	015
10,000 lb. galvanizing	04	06	60
50 sq.yd. bituminous waterproofing	30	2 00	1 15
5,000 lin.ft. tile pipes 6 in. and less in diameter	50	40	46
1,000 lin.ft. tile pipes 8 in. to 12 in. in diameter	1 00	80	1 04
500 lin.ft. tile pipes larger than 12 in. and not exceeding 18 in. in diameter	1 50	1 50	1 84
11,000 lin.ft. bituminous macadam highway	3 00	5 00	2 00
15,000 lin.ft. wooden fences and guard-rails	65	1 50	1 15
1,500 lin.ft. stone guard walls	2 50	3 00	8 60
500 M.ft.b.m. timber and lumber	90 00	150 00	85 00
100 prac. months medical and surgical practitioners	500 00	500 00	400 00
78 months sanitary services	1,000 00	700 00	700 00
Cleaning up (lump sum)	10,000 00	15,000 00	11,500 00
Extended totals	$7,203,175	$74,43,335	$7,597,979

PAVING—MIDLAND, MICH.

Bids were received by city for street paving from, (A) Globe Constr. Co., Kalamazoo; (B) Municipal Contg. & Supply Co., 1736 Jackson St., Gary, Ind.; (C) Seaman & Green, Grand Rapids. The unit bids were as follows:

	A	B	C
5,740 cu.yd. grading	$0 65	$1 00	$0 70
1,695 lin.ft. 10-in. P. S	1 05	1 82	1 00
5 manholes	50 00	72 00	65 00
29 catch basins	60 00	48 00	65 00
3 inlets	25 00	36 00	35 00
6,165 lin.ft. straight stone curb		1 25	
486 lin.ft. circular stone curb		2 00	
6,165 lin.ft. straight concrete curb	65	88	
486 lin.ft. circular concrete curb	90	98	
6,165 lin.ft. straight concrete curb and gutter	85	1 25	80
486 lin.ft. circular concrete curb and gutter	1 10	1 50	80
579 lin.ft. marginal concrete curb	50	50	40
6,620 lin.ft. 4-in. D.T.	06	07	12
50 cu.yd. extra concrete	14 00	15 00	10 00
13,792 sq.yd. asphaltic concrete paving old foundation	(a) 1 49	(b) 1 65	(c) 1 65
11,921 sq.yd. asphaltic concrete paving new foundation	2 64	2 90	2 15
11,921 sq.yd. vitrified block paving new foundation			3 25
11,921 sq.yd. Metropolitan block paving foundation		4 00	
11,921 Townsend block paving foundation		3 98	
11,921 Townsend block paving, 3-in. block		3 73	
11,921 sq.yd. cement filler		20	
11,921 sq.yd. mastic filler		35	20
Extended totals stone curb asphaltic concrete pavement		$78,194	
Extended totals concrete curb asphaltic concrete pavement	$65,488	$75,417	
Extended totals concrete curb and gutter asphalt concrete pavement	$64,544	$75,457	
Extended totals concrete curb and gutter tarvia macadam pavement			$61 408

(a) Trinidad or Bermudez.
(b) Texaco.
(c) Tarvia-macadam, contractors specifications.

Industrial Works (Continued)

Minn., Minneapolis—Cedar Lake Ice Co., 1224 Plymouth Bldg., receiving tentative bids building 5-story, 140 x 160 ft. rein.-con. and brick ice storage plant, rein.-con. flooring, brick foundation. About $150,000.

Ont., London—Lockwood, Greene & Co., engrs., 38 South Dearborn St., Chicago, Ill., receiving bids building 4 story, 85 x 150 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Bathurst St., for Holeproof Hosiery Co., 186 King St. About $200,000. Noted Mar. 13.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Campello** (Brockton P. O.)—G. E. Keith Co., Station St., Brockton, let contract building 2-story, 60 x 70 ft. power plant and 6 x 7 x 40 ft. rein.-con. tunnel, here, to Westcott & Mapes, 207 Orange St., New Haven, Conn. About $100,000. Noted Apr. 24.

★**Mass., Holyoke**—Goetz Silk Mfg. Co., 642 South Summer St., let contract building 2 story, brick and steel addition to factory, rein.-con. flooring, concrete foundation, to Casper Ranger Constr. Co., 20 Bond St. About $60,000. Noted May 15.

★**Mass., Springfield** — Natl. Equipment Co., 662 North Main St., let contract building 3-story, 100 x 372 and 35 x 162 ft. rein.con. addition, to A. E. Stephens Co., 128 Chestnut St. About $100,000. Noted May 15.

★**Mass., Worcester** — Royal Worcester Corset Co., 30 Wyman St., let contract building 5-story, 71 x 240 ft. brick addition to plant, concrete foundation, on Grand St., to E. D. Ward Co., 82 Foster St. About $130,000.

★**R. I., Providence**—Graham Mfg. Co., 94 Point St., let contract building 2-story, 43 x 100 ft. brick and timber addition to machine shop, concrete foundation, on Willard Ave., to O. D. Purington & Co., 624 Industrial Trust Bldg. About $30,000.

★**R. I., Providence**—B. B. Knight Estate, Broad St., let contract building, 1-story, 80 x 140 ft., brick, steel and concrete garage, concrete foundation, on Dorrance and Eddy Sts., to H. Cummings, 397 Massasoit Ave., East Providence. About $50,000. Noted Apr. 24.

★**R. I., Woonsocket**—Guerin Spinning Co., Social St., let contract building 3-story, 85 x 265 ft. brick and timber addition, concrete foundation, to W. Aubin, 1103 Diamond Hill Rd. About $110,000.

★**N. Y., Brooklyn**—Rivestone Impvt. Co., 620 Saratoga Ave., will build 1-story, 100 x 188 ft. brick and steel garage, rein.-con. flooring, brick foundation, on Kosciusko St. and Bedford Ave. About $25,000. Work will be done by day labor.

★**N. Y., Buffalo**—Beale & Sons, 7375 Park St., let contract building 2 story, 20 x 80 ft. steel and concrete plant, concrete foundation, on Mesner St., to G. H. Schickler & Son, Buffalo. About $25,000. Noted May 1.

★**N. Y., Buffalo**—H. Hayman Co., 856 East Ferry St., let contract building 1 story, 80 x 100 ft. steel foundry, concrete foundation, to Ferguson Steel & Iron Co., 1299 Bailey Ave. About $25,000. Noted Apr. 24.

★**N. Y., Buffalo**—Johnston-Kurtz Co., 151 Franklin St., let contract building 3-story, 31 x 100 ft. addition, at 153 Franklin St., to C. Berricks Sons, 1151 Main St. About $25,000.

★**N. Y., Long Island City**—A. Cohen, 212 5th Ave., New York City, let contract building 3-story, 83 x 183 ft. brick and steel mill, rein.-con. flooring, brick foundation, on William and Freeman Aves., to J. W. Bishop, 103 Park Ave., New York City. About $60,000. Noted Apr. 3.

★**N. Y., New York**—W. Zinsser & Co., 195 William St., let contract building 2 story, 50 x 100 ft. rein.-con. and steel warehouse, rein.-con. flooring, concrete foundation, on 59th St. and 10th Ave., to Rugles-Robinson, 331 Madison Ave. About $35,000. Noted Apr. 3.

★**N. Y., Syracuse**—Kallfelz Bros., 215 Magnolia St., let contract building 2-story, 95 x 150 ft. bakery on Shonnard and South Geddes St., to R. F. Burns, Syracuse. About $70,000.

★**N. Y., Utica**—Utica Suspender Co., Cox Bldg., let contract building 2-story, 16 x 90 x 149 ft. brick factory, concrete foundation, on Sunset Ave., to Hopp & Down, Utica. About $25,000, cost plus percentage.

★**N. Y., Watertown**—D. E. Guilfoyle, Stone St., let contract building 2-story, 100 x 100 ft. concrete block fireproof garage, to L. Carpenter. About $28,000.

★**N. J., Newark**—O. Heineman Co., Inc., 145 Jackson St., let contract building 4-story, 80 x 400 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Thomas St., to Amer. Concrete Steel Co., 27 Clinton St. About $500,000. Noted Apr. 24.

N. J., Trenton—Atlas Tire & Rubber Co. let masonry contract building 1 story, 90 x 360 ft. and 82 x 92 ft., concrete, brick and steel plant, to J. H. Morris Co., 615 Broad St. Bank Bldg.; carpentry, to C. Y. Barlow, 255 Bellevue Ave., concrete work, to Rees-Taylor Co., Mechanic Bldg., steel work, to N. K. Bugbee Co., 106 East Hanover St. Total cost, $250,000. Noted May 15.

★**Pa., Hershey**—Hershey Chocolate Co. will build 5 story, 180 x 240 ft. candy factory, concrete foundation. Work will be done by day labor.

★**Pa., Phila.**—Baxter, Kelly & Faust, Tioga and C Sts., let contract building 4 story, 56 x172 ft. brick factory, to H. H. Burrell, 206 Quince St.

★**W. Va., Clarksburg**—Lafayette Glass Co. let contract building 1 story, steel factory, to Memphis Steel Constr. Co., Pennsylvania Magee Bldg., Pittsburgh, Pa. About $70,000. Noted May 15.

★**O., Cleveland**—City Auto Tire & Supply Co., 2415 Chester Ave., let contract building 1 story, 40 x 137 ft., concrete, steel and brick factory addition, to S. W. Emerson Co., 1900 Euclid Ave. About $25,000. Noted May 15.

★**O., Cleveland**—Warner & Swasey Co., 5701 Carnegie Ave., let contract building 1 story, 90 x 176 ft., steel addition to factory at 5815 Cedar Ave., to United Erecting Co., Amer. Trust Bldg. About $30,000. Noted May 15.

★**O., Ivorydale**—Proctor & Gamble Co., Gwynne Bldg., Cincinnati, let contract building 2-story 100 x 400 ft., concrete, steel and brick warehouse, here, to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland.

★**O., Plymouth**—Root-Heath Mfg. Co., let contract building concrete, steel and brick plant, to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland. Plans include cleaning, sanding, office and shipping buildings and foundry.

★**Ind., Bloomington**—Showers Bros. let contract building brick, steel and rein.-con. plant to H. K. Ferguson, 6523 Euclid Ave., Cleveland. Plans to include machine shop, assembly building, cabinet shop, tin shop, welfare buildng, dry kiln, power house, etc.

★**Mich., Lansing**—See "Buildings."

★**Mich., Pontiac**—Briscoe Mfg. Co., Woodward Ave., Detroit, let contract building 1 story, 60 x 200 ft., rein.-con. and steel factory, concrete foundation, on Paddock and Jessie Sts., to Slater Constr. Co., Pontiac.

★**Ill., Chicago**—Morris & Co., Union Stock Yards, let contract building 9-story, 150 x 350 ft. rein.-con. cold-storage warehouse, rein.-con. flooring, concrete foundation, on 44th and Loomis Sts., to R. C. Wieboldt, 1534 West Van Buren St. About $1,000,000. Noted Mar. 13.

★**Wis., Janesville**—Samson Tractor Co., let contract building 2nd unit of plant, 200 x 500 ft., to J. P. Cullen, Jacksonville. About $500,000. Noted Feb. 20.

★**Wis., Two Rivers**—Eggers Veneer Seating Co. let contract building 4 story, 60 x 220 ft. brick and steel factory, concrete foundation, to W. Oeflein, 136 Hanover St., Milwaukee. About $100,000.

★**Wis., Two Rivers**—Hamilton Mfg. Co. let contract building 1-story, 50 x 150 ft., mill construction factory and 5-story, 100 x 150 ft., mill construction factory with steel frame, concrete foundation, to W. Oeflein, 136 Hanover St., Milwaukee. About $130,000.

★**Mo., St. Joseph**—Swift & Co., Union Stock Yards, Chicago, let contract building 2-story, 42 x 110 ft., rein.-con., steel and brick addition to cold storage plant, rein.-con. flooring, concrete foundation, on Packers Ave., here, to Lehr Constr. Co., 1712 Frederick Ave., $30,500.

★**Mo., St. Louis**—Bemis Bag Co., 607 South 4th St., let contract building rein.-con. and brick warehouse and office, rein.-con. flooring, rock foundation, at 2402 South 2nd St., to Fruin-Colnon Constr. Co., Merchants Laclede Bldg., $60,000.

★**Tex., Dallas**—Dallas Transfer Co. let contract building 10-story, rein.-con. storage and warehouse, to W. C. Hedrick Constr. Co., South Western Life Bldg. About $300,000.

★**Cal., Los Angeles**—Central Business Properties, Inc., Investment Bldg., let contract building 3 story, concrete and brick bakery, concrete foundation, on Flower St., to Milwaukee Bldg. Co., 317 Wright & Callender Bldg. About $55,000. Elite Catering Co., 825 West 7th St., lessee.

★**Cal., San Francisco**—Master Refinery Co., Sharon Bldg., will build oil refinery to include warehouse, laboratory, twenty 12,500 gal. steel tanks, etc. Work will be done by day labor under supervision of N. R. West, supt.

★**Cal., San Francisco**—Sherman Estate, c/o J. L. Stewart, archt., Claus Spreckels Bldg., let contract building 5 story, 100 x 160 ft., rein. con. warehouse, rein.-con. flooring, concrete foundation, on 2nd and Brannan Sts., to C. Stockholm & Son, Monadnock Bldg., $119,750. Noted May 1.

★**Que., Quebec**—Duchaine & Perkins, 195 De la Couronne St., let contract building 4 story, 80 x 190 ft. concrete, steel and brick shoe factory, concrete foundation, on Crown St., to M. Cauchon, Quebec. About $35,000.

★**Ont., Guelph**—Patridge Rubber Co., Metcalf St., let contract building 3-story, 60 x 100 ft. rein.-con. and brick addition to plant, rein.-con flooring, concrete foundation, to P. H. Secord & Sons, 133 Nelson St., Brantford, $44,200. Noted Apr. 3.

★**Man., Winnipeg**—Dept. Pub. Wks., Ottawa, let contract for extension to power house and laundry, at Tuxedo Military Hospital, here, to Carter-Halls-Aldinger Co., Ltd., 1010 Union Bank Bldg., $145,529. Noted Mar. 27.

Buildings

PROPOSED WORK

Mass., Framingham—School—Town appropriated $170,000 to build 2-story, 16-room brick, on Hollis St. E. E. Bowers, clk.

Mass., Holyoke—Theatre and Business—Goldstein Bros. Amusement Co., Bridge St., Springfield, plans to construct theatre and business building on Suffolk and Chestnut Sts. About $225,000.

Mass., Wellesley (Boston P. O.)—Dormitory—Wellesley College, having plans prepared by J. A. Schweinfurth, archt., 53 State St., Boston, for 3-story fireproof construction on college campus. About $300,000.

Conn., Bridgeport—Police Station—City appropriated $75,000 to build new 2nd precinct police station, on Barnum Ave. and Caroline St. J. Shultz, clk.

Conn., Bridgeport—School—City appropriated $155,000 to build additions to McKinley School on Kelsey St. and Madison School on Wayne St. J. Shultz, clk.

Conn., Hartford—Business—I. A. Allen, Jr., archt., 904 Main St., soon receives bids altering 5-story building, on High and Allyn Sts., for G. F. Heublein, 196 Trumbull St. About $50,000.

Conn., New Haven—Hospital and Chapel—W. F. O'Neill, archt., 172 Farmington Ave., Hartford, soon receives bids building 4-story, 40 x 140 ft. brick and steel addition, rein.-con. flooring, concrete foundation, on Chapel St., for St. Raphael Hospital, 1442 Chapel St. About $65,000.

N. Y., Brooklyn—Asylum—Jewish Orphan Asylum, Dumont Ave., having plans prepared by E. M. Adelsohn, archt., 1778 Pitkin Ave., for 3-story, 65 x 95 ft. brick, steel and rein.-con., brick foundation, on Dumont Ave. between Elton and Linwood Sts. About $115,000. P. J. Polansky, pres.

N. Y., Brooklyn—Synagogue and School—New Hebrew School, 505 Ashford St., having revised plans prepared by E. M. Adelsohn, archt., 1778 Pitkin Ave., for 3-story, 46 x 70 ft. brick and steel, brick foundation, on Ashford St. and Sutter Ave. About $60,000.

N. Y., New York—Auditorium—Mount Sinai Hospital, 100th St. and Madison Ave., having plans prepared by A. W. Brunner, archt., 101 Park Ave., for 2 story, 100 x 120 ft. brick, stone, and steel, brick foundation, on 99th St. east of 5th Ave. About $150,000.

N. Y., New York—Allerton House Corp., 143 East 39th St., plans to build 16 story, 100 x 200 ft. brick, stone and steel, brick foundation, at 551-553 Madison Ave. About $1,000,000. Architect not selected.

Buildings (Continued)

N. Y., New York—Bank—National Park Bank, 214 Bway, having plans prepared by D. Barber, archt., 101 Park Ave., for 3-story, 50 x 100 ft. brick and steel addition, brick foundation, at 149 Fulton St., through to 20 Ann St. R. Delafield, pres.

N. Y., New York—Office and Loft—Sohmer & Co., 315 5th Ave., soon receives bids building 6-story, 27 x 100 ft. brick and steel, brick foundation, at 31 West 57th St. About $75,000. R. H. Almiroty, 220 5th Ave., archt.

N. Y., New York—Store—F. Rogers & Son, 143rd St. and 3rd Ave., having plans prepared by Townsend, Steinle & Haskell, archts., 47 West 34th St., for 5-story, 158 x 178 ft. brick and steel, brick foundation, on Fordham Rd. near Park Ave. About $53,000.

N. Y., Niagara Falls—Church—St. Paul's Methodist Episcopal congregation having plans prepared for new church on 7th St. near Cedar Ave. Cost between $70,000 and $80,000.

N. J., Trenton—Bank—Colonial Trust Co., South Broad St., plans to build bank. About $100,000. Address H. A. Smith, 1387 Brunswick Ave. Architect not selected.

Pa., Altoona — Business and Office — I. H. Fishbone, 1005 10th St., and R. D. Elder, Juniata, purchased 50 x 120 ft. site on Main St. here, and plan to build 4-story. About $80,000.

Pa., Altoona — Hotel — Altoona Hotel Assn., c/o Chamber Commerce, plans to build hotel. About $200,000.

Pa., Blairaville—Hospital, etc.—Western State Hospital for Insane, Altoona, having plans prepared by Crooks & Cooley, archts., Jones Law Bldg., Pittsburgh, for hospital and group of institutional buildings near here, to consist of administration building, power house, laundry, 4 ward buildings, sewage disposal plant, reservoir, auditorium, nurse's home and morgue, to be 1, 2 and 3 story, various dimensions. About $2,000,000. G. S. Idell, 34 South 16th St., Philadelphia, consult. archts. Noted Feb. 20.

Pa., Braddock—Church, etc.—St. Michael Slavonic congregation plans to build 150 x 400 ft. brick and stone church, parish house and school, rock foundation, on Verona St. and Bell Ave.

Pa., Phila.—Bank—Republic Trust Co., 1429 Chestnut St., plans to build 4-story, 20 x 95 ft. concrete and steel. About $60,000. Stuckert Co., Crozer Bldg., archts.

Pa., Pittsburgh—Bank—Homewood Peoples Bank, 618 Homewood Ave., having estimates made and sketches prepared for extension to bank. About $100,000.

Pa., Pittsburgh—Educational—Carnegie Institute of Technology, Schenley Park, plans to build rein.-con., steel and brick extension to central building, concrete foundation. About $100,000. H. Hornbostel, 63 William St., New York City, archt.

Pa., Sunbury—Church—Zion Lutheran congregation plans to build church on Market and 5th Sts. About $150,000. C. R. Bowers, pastor.

Md., Crisfield—Church—Asbury Methodist Episcopal congregation, c/o W. F. Cochran, pastor, plans to build 1- and 2-story, stone, concrete and stone foundation. About $75,000. Architect not selected.

Md., Hagerstown—Schools—Bd. Educ. Washington Co. rejected bids received building 4-room school at Halfway (suburb) and 2-room school on Ridge Ave. Plans will be revised and work readvertised. A. J. Klinkhart, 27 West Washington St., archt. Noted Feb. 13.

La., New Orleans—Church, etc.—S. C. Stone, archt., Liverpool & London & Globe Insurance Co. Bldg., soon receives bids building brick and stone church, auditorium and school, on South Rampart St., between Canal and Marais St., for Grace Episcopal congregation. About $75,000.

Ind., South Bend—Bank—Amer. Trust Co., Michigan and Washington Sts., having plans prepared by Freyermuth & Maurer, archts., Farmers' Trust Bldg., for 3-story, 25 x 85 ft. steel and rein.-con. About $60,000.

Mich., Alpena—Armory — City having plans prepared by A. Gould, archt., 611 Empire Bldg., Detroit, for 1-story, 118 x 180 ft., rein.-con. and steel, rock foundation, on Main St. About $75,000.

Mich., Detroit—Club—Detroit Athletic Club, John R. St. and Madison Ave., plans to build 4-story, brick, steel and stone addition, to contain 120 rooms, large auditorium, reception room, etc., on Randolph and Cross Sts. About $700,000.

Mich., Detroit — Commercial — Harley-Buick Sales Co., 670 Cass Ave., having plans prepared by Williams Bros., archts., 1111 Kresge Bldg., for 1-story, 45 x 156 ft., brick and steel, rein.-con. flooring, concrete foundation. About $50,000.

Mich., Oakwood (Oxford P. O.)—High School—Village having plans prepared by Van Leyen, Schilling & Keough, archts., Union Trust Bldg., Detroit, for 2-story, rein.-con., brick and steel, concrete foundation. About $230,000.

Ill., Chicago—Exchange—Central Film Exch., c/o Berlin & Severn, archts., 19 South La Salle St., having plans prepared for 12-story, 95 x 165 ft., on Wabash Ave. and 9th St. About $200,000.

Ill., Chicago—Hotel—C. R. Gleason, c/o Schmidt, Garden & Martin, archts., 104 South Michigan Ave., having plans prepared for 10-story, 100 x 140 ft. fireproof, on Sheridan Rd. and Surf St. About $1,500,000.

Ill., Chicago—Library and Office—John Crerar Library, Marshall Field Bldg., receives bids about June 1, building 14 story, 128 x 135 ft., steel, concrete foundation, on Randolph St. and Michigan Blvd. About $1,500,000. Holabird & Roche, 104 South Michigan Ave., archts. Noted Feb. 6.

Ill., Chicago—Mercantile—Chicago Title & Trust Co., 69 West Washington St., having plans prepared by J. Hunt, archt., 30 North Michigan Ave., for 6 story, 70 x 80 ft. brick and steel, concrete foundation, on Michigan and Lake Sts. About $200,000.

Ill., Pontiac—Hospital—St. James Hospital Assn. plans to rebuild hospital recently destroyed by fire. About $150,000.

Wis., Eau Claire—Church—First Congregational Church had plans prepared for church to replace one destroyed by fire. About $95,000.

Wis., Superior—School—Bd. Educ. rejected bids, building 3 story, 94 x 188 ft. brick and rein.-con., rein. flooring, concrete foundation. About $200,000. F. E. Johnson, Superior, archt. Noted Dec. 12.

Ia., Waverly—High School—Bd. Educ. having plans prepared by G. L. Lockhart, archt., 391 Endicott Bldg., St. Paul, for 2-story, 160 x 200 ft. rein.-con. and brick, brick foundation. About $225,000.

Minn., Duluth—School—Bd. Educ. rejected bids received May 7, building 2 story, 64 x 180 ft. with wing 1½ story, 40 x 60 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Riverside Townsite. About $90,000. Croft & Boerner, 712 Palace Bldg., Minneapolis, archts. Noted May 1.

Minn., Holloway—School—Bd. Educ. soon receives bids building 2-story grade and high school. About $50,000. Foss & Foss, St. Cloud, archts.

Minn., Marney — School — Independent School Dist. No. 1 soon lets contract building 2-story, 90 x 100 ft. brick and timber, rein.-con. flooring, concrete foundation. About $50,000. E. F. Broomhall, 710 Alworth Bldg., Duluth, archt.

S. D., Humboldt—School—Bd. Educ. Independent School Dist., voted $85,000 bonds to build school. Noted May 15.

S. D., Mitchell—Hospital—Methodist State Hospital plans to build additions. About $60,000. J. Chapman, 313 Paulton Blk., Sioux Falls, archt.

S. D., Watertown—Schools—City voted $300,000 bonds to build junior high and vocational schools. Tyre & Chapman, 320 Auditorium Bldg., Minneapolis, Minn., archts.

Mont., Harlowton—School—Bd. Educ., School Dist. No. 16, soon receives bids building school. About $50,000. E. C. Teague, Harlowton, archt.

Mont., Havre—Store and Lodge—B. P. O. E. plans to build 3 story 60 x 140 ft. brick. About $100,000. W. B. Pyper, secy. Architect not selected.

Mont., Roundup—Temple—Masonic Temple Assn. plans to build 3-story, 65 x 140 ft. About $100,000. N. R. McDonald, pres. Architect not selected.

Mo., Kansas City—Store—S. S. Kresge Co., 1117 Main St., having plans prepared by F. E. McIlvain, archt., Orear-Leslie Bldg., for 7 story, rein.-con. and steel, on 12th and Main Sts. About $500,000.

Mo., St. Joseph—Hotel—C. Otto, 1224 South 6th St., having plans prepared by R. Meier, archt., Lincoln Bldg., for 3-story, 58 x 75 ft., brick and stone, brick foundation, on 6th and Mitchell Sts. About $[illegible].

Mo., St. Joseph—Infirmary—Buchanan Co. having plans prepared by W. Boschen, R. Arnold and R. Meier, archts., Tootle-Lacy Bank Bldg., for 3-story, rein.-con. and brick, rein.-con. flooring, brick and concrete foundation, near here. Bonds for $225,000 voted for project.

Mo., St. Louis—Laboratory—Washington University Corp., Skinker and Lindell Sts., plans to build 2-story on campus. About $70,000. Architect not selected.

Tex., Houston—Church and School—Holy Name congregation plans to build church and school on Marion and James Sts. About $100,000.

Tex., San Antonio—Cathedral—Scottish Rite Masons plan to build new cathedral. Cost between $200,000 and $500,000. P. D. Mathis, 615 North St. Marys St., secy.

Tex., Waco—Church and Parsonage—Methodist congregation, Morrow St., plans to build. About $79,000.

Idaho, Boise—State Legislature having plans prepared by Tourtellotte & Hummel, archts., McKay Bldg., Portland, Ore., for two rein.-con. and steel wings to Capitol. About $900,000.

Idaho, Rexburg—Court House—Madison Co. voted $100,000 bonds to build a new court house.

Utah, Provo—Court House—Utah Co. voted $200,000 bonds and Provo City $100,000 bonds to built joint courthouse and city hall. Noted Mar. 27.

Utah, Salt Lake City—School—City voted $2,130,000 bonds to build new schools, including high school costing $750,000.

Ariz., Phoenix—Bank and Office—Natl. Bank of Arizona, Washington St. and Central Ave., having plans prepared by Lescher & Kibbey, archts., Bank of Arizona Bldg., for 4-story, 23 x 137 ft., brick addition, concrete foundation. About $75,000.

Cal., Antioch—Hall—Town voted $55,000 bonds to build hall on 3rd and H Sts. Architect not selected.

Cal., Fresno—School—Oil King School Dist. having plans prepared by E. J. Kump, archt., 227 Rowell Bldg., for 1-story, concrete and frame, concrete foundation. About $50,000.

Cal., Imperial—School—Imperial School Dist. voted $90,000 bonds to build school. D. C. Gale, trustee. Architect not selected. Noted May 8.

Cal., Pittsburg—Church, Rectory and Hall—St. Peter's congregation having plans prepared by Smith-O'Brien, archts., Bankers Investment Bldg., San Francisco, for timber and stucco church, rectory and hall, concrete foundation. About $60,000.

Cal., Sacramento—Bank and Office—Capitol Natl. Bank, 700 J St., having plans prepared by Weeks & Day, archts., 223 California Fruit Exch. Bldg., for 18-story, concrete, brick, steel and terra cotta, concrete foundation, on 6th and J Sts. About $750,000.

Cal., San Francisco—Bank—Union Trust Co., Grant and Market Sts., having plans prepared by F. H. Meyer, archt., Bankers' Investment Bldg., for 3 story, 80 x 120 ft., concrete and steel addition. About $200,000.

Cal., San Francisco—Club—Francisco Club, 560 Sutter St., having plans prepared by E. E. Young, archt., 251 Kearny St., for 5 story club to contain swimming pool, dormitories, etc., on Sutter and Mason Sts. About $100,000.

Cal., San Francisco—Offices—Bd. Supervs. Health Dept. having plans prepared by J. Reid, Jr., archt., 1st Natl. Bank Bldg., for 4 story concrete and steel, concrete foundation, on Rock and Grove Sts. About $400,000.

Cal., San Francisco—Office and Loft—Wellman Estate Co., c/o Julius Krafft & Sons, archts., Phelan Bldg., having plans prepared for 5 story, 40 x 60 ft., brick and steel, on Jackson St. About $60,000.

Cal., Selma—High School—Selma Union High School Dist. plans to double size of present school and build frame and stucco gymnasium. Election will be held to vote on $175,000 bonds for project. Architect not selected.

Buildings (Continued)

Cal., Stockton—Church—First Christian congregation purchased 100 x 100 ft. site on Sutter and Lindsay Sts. and plans to build church. About $75,000.

Cal., Stockton—Office—See "Industrial Works."

Cal., Visalia—Bank and Office—Visalia Natl. Bank & Trust Co. having plans prepared by E. J. Kump, archt., 227 Rowell Bldg., Fresno, for 4 story, 83 x 116 ft., rein.-con., steel and terra cotta, rein.-con. flooring, concrete foundation, on Main and Church Sts. About $200,000.

Ont., Barrie—School—School Bd. having plans prepared by R. J. Edwards & Edwards, archts., 18 Toronto St., Toronto, building 2-story, brick. About $55,000.

Ont., Ottawa—Theatre—Loew's Circuit, Ltd., soon receives bids building theatre. About $200,000. Noted Feb. 13.

Ont., Peterborough—School—School Bd. having plans prepared by W. Blackwell, archt., Peterborough, building collegiate institution and auditorium. About $225,000. Noted Mar. 20.

Ont., Toronto—Club—Argonaut Rowing Club, Lake St., purchased site at foot of Bathurst St. and plans to build. About $200,000.

BIDS DESIRED

Mass., Roxbury (Boston P. O.)—School—Until May 27, by Boston School Bd., building 3-story, 60 x 141 ft. brick school with 4 work shops, concrete foundation, on Dearborn St., here. About $150,000. J. McLaughlin, 88 Tremont St., Boston, archt.

N. Y., Ossining—Hall, etc.—Until June 17, by C. F. Rattigan, supt. state prisons, Hall Records Bldg., New York City, building mess hall and kitchen building No. 4, detention building No. 5, outside cell building No. 7, clinic building No. 8, pump house and reservoir, also for sanitary, heating and electric work for same. L. F. Pilcher, Capitol, Albany, state archt.; advertised in this issue. Noted May 1.

N. J., Freehold—Hospital—Until June 4, by Bd. Supervs. Monmouth Co., building hospital including power house and laundry, water supply system, drainage and sewerage disposal system, near Allenwood, Wall Twp. W. M. Bergen, dir.

N. J., New Brunswick—School—Until June 4, by Bd. Educ., Bayard School, building school on Livingston Ave. E. H. Webb, chn. Noted Jan. 9.

Pa., Phila.—Bank—Until May 28, by Heacock & Hokanson, archts., Bailey Bldg., for 1 story, 54 x 78 ft., concrete and brick bank, with 15 x 54 ft. addition, for Kensington Trust Co., Kensington and Allegheny Aves. About $50,000. Noted May 15.

Pa., Phila.—Loft—L. B. Rothchild, archt., 1225 Sansom St., is receiving bids building 7-story, 100 x 150 ft., rein.-con. and brick. About $200,000. Owner's name withheld.

Md., Aberdeen—Bank—Until May 28, by H. P. Hopkins, archt., 211 Union Trust Bldg., Baltimore, building 2½-story, 50 x 75 ft. rein.-con. and brick, concrete and brick foundation, for 1st Natl. Bank. About $50,000.

Md., Baltimore—College—Trustees Morgan College, c/o J. O. Spencer, pres., 2106 St. Paul St., receiving bids for 3½-story, 85 x 200 ft., brick and stone, brick and concrete foundation, on Hillen Rd. About $85,000. E. L. Tilton and A. M. Githens, 52 Vanderbilt Ave., archts.

Md., Tracy's Landing—School—Until May 27, by Bd. Educ. Anne Arundel Co., Annapolis, building 2-story, 75 x 130 ft., brick, concrete and brick foundation, here. About $60,000. H. P. Hopkins, 211 Union Trust Bldg., Baltimore, archt.

La., New Orleans—Trade Schol—Until June 2, by Dept. Pub. Finances, building Isaac Delgado Central Trades School, on City Park and Orleans Aves. A. G. Ricks, comr. Noted Apr. 10.

O., Staunton—Schools—Until June 12, by Bd. Educ., building 2-story, 5 mi. west of here, cost $50,000; 2-story, brick in Fayette Co., $50,000. A. L. Rhodes, Washington C. H., archt.

SEWER—NEWARK, N. J.

Bids were received by Passaic Valley Sewerage Comrs., Newark, May 13, for constructing intercepting sewerage system, part of Sect. No. 19, Garfield River crossing, from (A) Henry E. Fox Constr. Co., Inc., 81 East 125th St., New York City; (B) Cenedella & Co., 136 Bloomfield Ave., Passaic; (C) Conners Bros. Co., Inc., 15 West 91st St., New York City. The unit bids were as follows:

	A	B	C
Earth excavation, dredging and refilling for 30 in. c. i. pipe line crossing Passaic River, etc., and all appurtenant work (lump sum)	$30,000	$75,000	$140,000
Laying 30 in. c. i. pipe line across Passaic River, furnishing of joint materials, etc., and all appurtenant work (lump sum)	9,000	6,500	7,000
20 cu.yd. rock excaZation in dredged and open excavations	10 00	15 00	65 00
130 cu.yd. concrete masonry, in place, with Portland cement mortar	25 00	20 00	40 00
60 cu.yd. brick masonry and appurtenant work, in manholes, laid with Portland cement mortar	12 00	30 00	55 00
10,000 lb. steel for concrete reinforcement and other purposes	10	12	15
500 long ton rip rap, in place, including gravel backing	3 00	7 00	8 00
5,000 lin.ft. timber piles, in place	40	2 00	3 00
60 pile bents timber caps, blocks, wedges, etc.	6 00	20 00	30 00
Furnishing earth material and grading about inlet siphon chamber and elsewhere	75	3 00	4 00
Extended totals	$48,255	$103,000	$180,300

HIGHWAY—WASHINGTON

Bids were received by State Highway Bd., Olympia, for constructing Pacific Highway in Lewis Co. from Sta. 0 + 30 to Sta. 18 + 80, from (A) Pacific Iron Wks., East 29th and Clackamas Sts., Portland, Ore. (awarded contract); (B) J. R. Wood, Seattle, Wash.; (C) R. E. Meith, Portland, Ore.; (D) Illinois Steel Bridge Co., Spokane, $139,734; (E) Union Bridge Co., Seattle, $145,854. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
8,500 cu.yd. common excavation, including overhaul, 400 ft.	$0 70	$1 00	$0 90
552 cu.yd. gravel surfacing	1 50	1 50	2 00
4 lamp posts	50 00	150 00	150 00
1,540 sq.yd. asphaltic concrete pavement	2 25	3 00	2 00
Lb. steel reinforcing bars	10	08	07
10 cu.yd. concrete, 1st class	22 80	25 00	24 00
Cu.yd. concrete, 2nd class	22 80	21 00	24 00
4 180 ft. steel spans in place, complete, lump sum	73,955	79,800	76,800
1,890 cu.yd. concrete in piers and abutments, 1:3:5	22 80	21 00	24 00
2,800 lb. reinforcing bars, anchor bolts, etc.	10	08	07
1,540 lin.ft. fir piling under piers	60	30	50
Extra metal, (per lb.)	08	10	09
Extended totals	$128,922	$134,974	$135,900

Mich., Detroit—School—Until June 12, by Bd. Educ., 50 Bway., building 2-story, 59 x 211 ft. with wing 43 x 62 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation on Georgia Ave. between Helen and Concord Aves., to be known as Theodore Roosevelt School, also for 133 x 211 ft. standard design school No. 1088 on Georgia Ave. Malcolmson & Higginbotham, 404 Moffat Bldg., archt. Noted Dec. 26.

Ill., Alton—Orphanage—Until May 30, by Wesselbecker & Hillebrand, archts., 805 Pontiac Bldg., St. Louis, Mo., building 3-story, 144 x 150 ft. brick, steel and rein.-con., rock foundation, near here, for Alton Orphanage Asylum. About $65,000.

Ill., Chicago—Sales—P. Gerhardt, archt., 64 West Randolph St., receiving bids building 1 and 2-story, 60 x 160 ft. mill construction, concrete foundation, on Washington Blvd. and Kilpatrick St., for L. F. Sullivan, c/o archt. About $60,000.

Ill., East St. Louis—Theatre—Until June 1, by J. Erber, building 2-story, 82 x 220 ft., rein.-con., rein.-con. flooring, concrete foundation, at 309 Collinsville Ave. About $100,000.

Wis., Eau Claire—Church—Until June 1, by 1st Congregational Church, building 1 story, stone. About $85,000. Holmes & Flynn, 8 South Dearborn St., Chicago, archts. Noted May 22.

Wis., Sheboygan—Theatre—Until June 15, by Majestic Theatre, c/o E. Bowler, Sheboygan, building 2 story, 40 x 150 ft. rein.-con. and brick, brick foundation, on Center and 8th Sts. Cost between $45,000 and $55,000. Architect not selected.

Ia., Britt—High School—Until May 26, by O. C. Patterson, secy. bd. educ., building 2 story, 104 x 242 ft., rein.-con. and brick, brick foundation. About $175,000. G. L. Lockhart, 391 Endicott Bldg., St. Paul, archt.

Minn., Austin—High School—Until July 1, by Bd. Educ. building 3 story, 160 x 232 ft., rein.-con. and brick, brick foundation. About $400,000. G. L. Lockhart, 391 Endicott Bldg., St. Paul, archt.

Minn., Fergus Falls—Hospital—Until June 5 (change of date), by State Bd. Control, St. Paul, building 2 story, 45 x 120 ft., rein.-con. and brick. About $50,000. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt. Noted May 8.

Minn., Hibbing—Hospital—Until June 2, by S. S. Rumsey, archt., Wolvin Bldg., Duluth, building 3-story, 45 x 150 ft., rein.-con. brick and steel, rein.-con. flooring, concrete foundation, on 4th Ave. and Mesaba St., for Oliver Mining Co., Wolvin Bldg., Duluth. About $250,000.

Minn., Hibbing—Mercantile—Until June 12, by S. S. Rumsey, engr., Wolvin Bldg., Duluth, building 2-story, 106 x 125 ft., brick and steel, rein.-con. flooring, concrete foundation, on Mesaba St., here, for Oliver Mining Co., Wolvin Bldg., Duluth. About $125,000.

Minn., Moose Lake—School—Until June 1, by C. F. Mahlke, clk. bd. educ., building 2-story, 62 x 90 ft., brick and timber, brick foundation, in Dist. No. 3. About $50,000. F. A. Schweiger, Moose Lake, archt.

Kan., Beloit—School—Until May 26, by Bd. Educ., for 3-story, 100 x 137 ft., rein.-con. and brick, rein.-con. flooring, brick and concrete foundation. About $125,000. W. H. Saylor, Reliance Bldg., Kansas City, archt.

Mo., Joplin—Cathedral—Until June 15, by Hubbell & Green, archts., Dallas, Tex., for 2-story, 125 x 150 ft., glazed terra cotta, rein.-con. flooring, concrete foundation, on 5th Ave., for Scottish Rites F. & A. M. T. L. Brown, 603 North Pearl St., secy.

Cal., Los Angeles—Hotel—Wilshire Blvd. Hotel Co. receiving bids building 5 story, rein.-con. and brick, on Wilshire Blvd., 8th, Fedora and Catalina Sts., main building to be "H" shaped with wings 500 ft. long. About $1,250,000. M. Hunt, 1017 Hibernian Bldg., archt. Noted Apr. 24.

Que., East Broughton—School—Until May 26, by W. Eafranco, secy. school bd., building 3 story, 50 x 80 ft., steel and brick, concrete foundation, on Broughton Rd. About $55,000.

Ont., Ottawa—School—Until May 28, by D. C. Scott, c/o Dept. Indian Affairs, building 3-story, 40 x 60 ft., steel and brick, concrete foundation, on Whitefish Indian Reservation. About $50,000.

Alta., Medicine Hat—Court House—Until May 30, by L. C. Charlesworth, deputy minister pub. wks., Edmonton, building brick court house here. About $150,000. Noted Apr. 3.

Buildings (continued)

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Blackstone**—High School—Town let contract building 2-story, brick and steel, concrete foundation, to Eastern Constr. Co., 660 Winter St., Woonsocket, R. I. About $60,000.

★**Mass., Holyoke**—Church—Second Congregational Church Society, Appleton St., let contract building 80 x 120 x 175 ft. brick, steel and rein.-con., rein.-con. flooring, concrete foundation, on Appleton and Maple Sts., to Casper Ranger Constr. Co., 20 Bond St. About $500,000. Noted May 8.

★**Conn., Bridgeport**—Home-Baptist Christian Union, Inc., 25 Thomas St., let contract building 4-story, 80 x 100 ft. brick, concrete and steel, rein.-con. flooring, concrete foundation, on Main and Thomas Sts., to Casey & Hurley, 120 Pequannock St. About $100,000. Noted Apr. 24.

★**Conn., Bristol**—Business—Malone & Phelan, 2 Riverside Ave., let contract building 2-story, 65 x 92 ft., brick and steel, rein.-con. flooring, concrete foundation, on Main and School Sts., to B. H. Hibbard Co., 140 Main St. About $60,000.

★**Conn., Greenwich**—Hotel—R. A. Cowles, c/o F. F. French Co., archts., 299 Madison Ave., New York City, let contract building 12 or 15 story, brick and steel, stone flooring, brick foundation, on Boston Rd. and Greenwich Ave., to F. F. French Co., 299 Madison Ave., New York City. About $1,000,000, cost plus percentage basis.

★**Conn., New London**—Dormitory—Connecticut College for Women, Mohegan Ave., let contract building 2-story, 60 x 138 ft. concrete, steel and granite, rein.-con. flooring, concrete foundation, to E. F. Miner Bldg. Co., 25 Foster St., Worcester, Mass. About $125,000. Noted Mar. 13.

★**N. Y., Brooklyn**—Church—St. Brendans congregation, 1525 East 12th St., will build 86 x 140 ft. brick and limestone addition, brick foundation, on Ave. O and East 12th St. About $100,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Hospital—Beth Moses Hospital, 404 Hart St., will build 5-story, 90 x 100 ft., brick and steel addition, brick foundation, on Hart St. and Stuyvesant Ave. About $350,000. Work will be done by day labor. Noted May 8.

★**N. Y., Lake Placid**—Hotel—Bowman Hotel Co., Hotel Biltmore, 43rd St. and Madison Ave., New York City, let contract building 10-story, brick and steel, brick foundation, here, to Hegeman-Harris Co., Inc., 33 West 42nd St., New York City. About $300,000. Noted Feb. 27.

★**N. Y., Long Island City**—High School—C. B. J. Snyder, supt. school bldgs., Municipal Bldg., New York City, let contract building 3 story, 100 x 100 ft. brick and steel addition to Bryant High School, rein.-con. flooring, concrete foundation, on Wilbur Ave., to T. A. Clarke Co., 122 Livingston St., Brooklyn. About $533,300. Noted May 15.

★**N. Y., New York**—Hotel—Seven Hundred West End Corp., 280 Madison Ave., will build 14-story, 44 x 100 ft., brick, steel and stone, brick foundation, on West End Ave. and 94th St. About $250,000. Work will be done by day labor.

★**N. Y., New York**—Store and Office—Hudson Motor Co., of New York, 1842 Bway., let contract building 10-story, 100 x 100 ft. brick and steel, brick foundation, on 62nd St. and Amsterdam Ave., to J. F. Berger, 315 West 68th St. About $550,000. Noted May 15.

N. Y., Salisbury Center—Hospital—G. W. Boyle, purch. agt., Herkimer Co., Herkimer, received lowest bid May 8 (general contract) building brick and concrete tuberculosis hospital on Heller Farm, here, from E. Bedford, Ilion, $96,588. Noted Apr. 24.

N. Y., Syracuse—School—H. C. Allen, city engr., received lowest 3 bids, building Prescott School, (a) Indiana Limestone, (b) Onondaga Litholite, general contract, from Schaefer Constr. Co., 5 West 31st St., New York City, (a) $271,020, (b) $270,820; T. H. McHale & Son, Cahill Bldg., (a) $297,000, (b) $297,000; Jenks & Venton Co., Syracuse, (a) $304,984; heating and ventilating, from J. R. Sheehan Co., 16 South Center St., Schenectady, $43,213; W. B. Goldie, 274 James St., $45,915; E. Joy & Co., 133 Market St., $53,934. Noted Mar. 6.

★**N. Y., Troy**—Market—Monican Co., 280 Bway., New York City, let contract building 3 story, 56 x 100 ft. brick and steel, rein.-con. flooring, concrete foundation, to C. P. Boland & Co., 30 4th St. About $65,000. Noted May 1.

★**Md., Hagerstown**—School—Bd. Educ. Washington Co. let contract remodeling and building brick and concrete addition to Antietam St. School, rein.-con. flooring, stone and concrete foundation, to G. B. McWolf, Hagerstown, $77,999. Noted Feb. 13.

★**Md., Hamilton**—School, etc.—St. Dominic's Catholic congregation, c/o J. B. Manly, pastor, let contract building 3-story, 60 x 110 ft., school, gymnasium and parish house, brick and stone, rock foundation, on Harford Rd., to J. J. O'Connor, 52 Knickerbocker Bldg., Baltimore. About $55,000.

★**W. Va., Montgomery**—High School—Bd. Educ. let contract building 3 story, brick and rein.-con., to Charleston Concrete Steel Co., Charleston. About $92,000. Noted May 15.

★**Ala., Ramer**—High School—Montgomery Co. School Bd. let contract building 1-story, brick, to I. O. Anderson, 207 Dexter St., Montgomery, $68,769.

Mich., Highland Park (Detroit P. O.)—Hospital—City received lowest 3 bids building 4 story hospital, 2 story power house and laundry and connecting tunnel, rein.-con., brick and steel, concrete foundation, from Rosenthal Constr. Co., Chicago, $241,600; Bryant & Detwiler, 2336 Dime Bank Bldg., $260,985; Culvertson & Kelley, 814 Ford Bldg., $261,708. Noted May 1.

★**Mich., Lansing**—Office and Library—Bd. State Auditors let contract building 6 story brick and rein.-con. library, office and steam heating plant, concrete foundation, to W. E. Wood Co., 1805 Ferd Bldg., Detroit, $682,643. Noted Apr, 24.

★**Minn., Campbell**—School—Bd. Educ. let contract building 2 story, rein.-con and brick addition, to J. A. McDonald Constr. Co., 723 1st Natl. Soo Line Bldg., Minneapolis, $70,864. Noted May 1.

★**Minn., Duluth**—School—Bd Educ. let contract building 2 story, 55 x 64 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Liberty St., to H. Fawcett, Mesaba Blk., $53,397. Noted Apr. 24.

★**Minn., Faribault**—Dormitory—State Bd. Control, St. Paul, let contract building 2 story, 45 x 150 ft., rein.-con. and brick at State School for Feeble-Minded, to W. O'Neil, Faribault. About $50,000.

★**Minn., St. Paul**—Dispensary—A. H. Wilder, 404 Wilder Bldg., let contract building 3 story, 51 x 96 ft., concrete, brick and stone, on Rice St. between College and Summit Aves., to G. J. Grant Constr. Co., 902 New York Life Bldg. About $100,000. Noted Apr. 10.

★**Mont., Bozeman**—Theatre—Gem Theatre Co. let contract building 2-story, 54 x 100 ft., brick, terra cotta and steel, rein.-con. flooring, concrete foundation, to H. J. Hamill, 401 South Bozeman St. Noted Mar. 20.

Wash., Medical Lake—School—State Bd. Control received lowest 3 bids building custodial school from S. G. Morin, Hutton Bldg., Spokane, $169,445; F. Phair, 416 2nd Ave., Spokane, $171,883; Colonial Bldg. Co., Hutton Bldg., Spokane, $173,387.

★**Cal., Los Angeles**—Gymnasium—Bd. Educ., Security Bldg., let contract building 2 story, 103 x 113 ft., brick, concrete foundation, at Polytechnic High School, to J. B. Harris, 218 South Gramercy Pl., $61,737. Noted May 8.

★**Cal., Oakland**—Office—East Bay Water Co., 9th St. and B'way, will build 4 story, 75 x 105 ft., rein.-con., concrete foundation, on 16th St. and San Pablo Ave. About $60,000. Work will be done by day labor.

Cal., Quincy—Courthouse and Jail—Bd. Supervs. Plumas Co. received bids building 3 story, rein.-con., from E. W. Book, 13th and S Sts., Sacramento, $145,647; J. L. McLaughlin, 244 Kearney St., San Francisco, $150,000; H. Williams, Hearst Bldg., San Francisco, $151,786. Noted Apr. 3.

★**Cal., San Francisco**—Loft—Dalziel Estate, 558 Mission St., let contract building 6 story, 82 x 187 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on 1st and Mission Sts., to Palmer & Peterson, Monadnock Bldg. About $185,000; cost plus percentage basis.

★**N. S., Halifax**—Hospital—Dept. Pub. Wks., Ottawa, let contract for new ward buildings, and altering and building additions to present building at Bellvue Military Hospital here, to M. E. Keefe Constr. Co., Halifax, $76,100. Noted Apr. 17.

Federal Government Work

PROPOSED WORK

R. I., Newport—Marine Railway—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here; Spec. 3904. About $15,000. Bids will be received at local yard.

N. Y., South Brooklyn—Boat Storage Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here; Spec. 3899. About $85,000.

N. Y., South Brooklyn—Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install 2 electric traveling cranes in boat storage building; Spec. 3900. About $40,000.

D. C., Anacostia—Buildings, Hangars, Roads and Distributing Systems—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to construct miscellaneous frame, rein.-con., brick and steel buildings, wooden hangars, concrete roads and heating and electric distributing systems, here; Spec. 3905.

D. C., Anacostia—Earth Fill—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans; Spec. 3897. About $10,000.

Va., Hampton Roads—Electric Distributing System—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install, here; Spec. 3901. About $60,000.

Va., Quantico—Tank—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build elevated steel tank, here; Spec. 3906. About $5000.

S. C., Port Royal—Dredge—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install 12-in. hydraulic dredge; Spec. 3898. About $71,000.

Mont., Dillon—Road Work—Bureau Pub. Rds., Missoula, plans to grade Grasshopper Creek-Elkhorn Springs Rd., Beaverhead National Forest, Beaverhead Co. G. Lautz, dist. engr.

Idaho, Leonia (Lenia P. O.)—Bridge—Bureau Pub. Rds., U. S. Dept. of Agriculture, 628 Post Office Bldg., Portland, Ore., plans to build steel bridge over Kootenai River, here, connecting Lincoln Co., Mont., with Boundary Co. Idaho and Montana will appropriate $10,000 each; Boundary and Lincoln Counties, $2500 each. Total cost, $50,000. C. H. Purcell, dist. engr.

Idaho, Sand Point—Road Work—Bureau Pub. Rds., Missoula, plans to grade 3 mi. West Branch Rd., Kaniksu National Forest, leading to Priest Lake. About $10,000. G. Lautz, dist. engr.

Idaho, Wallace—Road Work—Bureau Pub. Rds., U. S. Dept. Agriculture, Post Office Bldg., Portland, Ore., plans to grade 3 mi. Lookout Pass Natl. Forest Rd., 16 ft. wide, Shostone Co. C. H. Purcell, dist. engr.

Cal., Mare Island—Cranes—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install 3 electric traveling cranes in structural shop, here; Spec. 3903. About $250,000.

P. R., Cayey—Radio Buildings—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to construct 3 radio buildings, here; Spec. 3902. About $27,000.

BIDS DESIRED

N. H., Portsmouth—Laundry—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Marine Barracks, here; Spec. 3877. About $7000; $10 deposit required for plans and spec. Noted May 1.

Mass., Boston—Repairing Pier Walls—Until June 4, by Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing walls of Pier No. 1; Spec. 3815. About $39,000; $10 deposit required for plans and spec.

Mass., Hingham—Dredging—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Naval Ammunition Depot, here; Spec. 3548. About $30,000; $10 deposit required for plans and spec. Noted Nov. 14.

Mass., Hingham—Fire Protection System—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing here; Spec. 3808. About $200,000; $10 deposit required for plans and spec. Noted Feb. 20.

N. Y., Montauk—Power House—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building, here; Spec. 3889. About $4000; $10 deposit required for plans and spec. Noted May 15.

N. Y., New York—Dredging—Until June 16, by U. S. Engr. Office, 39 Whitehall St., dredging in East River; advertised in this issue. Noted Apr. 10.

Federal Government Work (Continued)

Fla., Key West—Oil Burning Equipment—Until June 4, by Bureau Yards & Docks, Navy Dept., Wash., D. C., furnishing oil burning equipment for boilers; Spec. 3847. About $6500; $10 deposit required for plans and spec. Noted Apr. 3.

Tenn., Memphis—Boilers—Until June 20, by Dist. Engr., Mississippi River Dredging Dist., P. O. Box 1017, furnishing and delivering 3 watertube boilers for U. S. Dredge Kappa; advertised in this issue.

Mo., St. Louis—Levee Work—Until June 19, by Secy. Mississippi River Comn., 1311 International Life Bldg., for 200,000 cu.yd. earthwork by hydraulic method in Muscatine-Louisa Island Levee Dist., Ia.; advertised in this issue. Noted Apr. 3.

Tex., Camp Travis—Buildings, Sewers, Water Mains, etc.—Until June 2, by Constr. Quartermaster, Mexican Border Project, Camp Travis, building 997 brick, adobe and frame buildings, water mains, sewers, wiring, etc., at 30 posts and camps along Mexican border, in Texas, New Mexico and Arizona; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Boston—Sand and Gravel—U. S. Engr. Office, 11 Barristers Hall, let contract furnishing sand and gravel at Nahant, to Boston Sand & Gravel Co., 88 Broad St., sand $1.36 per cu.yd., gravel $2.40 per cu.yd.

★Mass., Chelsea—Roads—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Naval Hospital Reservation, here, to Coleman Bros., 1 Marginal St., $8900 (30 days). Noted Apr. 10.

★R. I., Newport—Torpedo Storage Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building, here, to Faillace Bros., 7 East 42nd St., New York City. (1) $167,273 (150 days), prices on (2), (3) and (4) also accepted. Noted May 15.

★N. Y., New York—Barracks—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building receiving ship barracks, here, to Northeastern Constr. Co., 101 Park Ave., New York City, $2975, (15 days). Noted May 15.

Pa., Phila.—Elevator and Shafts—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids May 19, installing elevator and shafts in heavy machine shops, here, (1) work complete, from M. H. McCloskey, Jr., 1620 Thompson St., (1) $15,409 (120 days); F. G. Fearon Co., 280 Madison Ave., New York City, (1) $19,400 (120 days); (3) $4000 (135 days); Mansfield & Savage, 135 William St., New York City, (1) $21,999 (120 days); (2) $19,990 (120 days); (3) $7150 (30 days); A. B. See Elevator Co., 220 Bway., New York City, (2) $8800; Albro-Clem Elevator Co., Erie Ave. and D Sts., (2) $14,648 (165 days). Noted May 1.

D. C., Wash.—Grading—Dist. Comrs., Dist. Bldg., received bids May 15, grading (1) Whittier St., N. W. from Georgia Ave. to Piney Branch Rd.; (2) Douglas and Polk Sts., N. E. from Olive to 44th Sts., from G. Hyman, 1116 Morse St., N. E., (1) $.58 per cu.yd.; (2) $.74 per cu.yd. Vinson Contg. & Excavating Co., Baltimore, Md., (1) $.61 per cu.yd.; (2) $.85 per cu.yd. W. F. Cush, 201 S St., N. E., (1) $.80 per cu. yd.; (2) $.75 per cu.yd. Noted May 8.

★Va., Quantico—Officers' Quarters and Administration Building—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building, here, to J. K. Turton Corp., 101 Park Ave., New York City, $270,595 (100 days). Noted May 8.

★W. Va., Wheeling—Rip Rap—U. S. Engr. Office, Cincinnati, O., let contract furnishing 4000 tons rip rap stone for Ohio River Dams Nos. 12-16, to Cresap & Armstrong, Wellsburg, $19,200. Noted May 1.

S. C., Charleston—Dry Dock—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids May 19, building dry dock No. 2, here (1) work complete, from D. L. Taylor & Co., Inc., 409 Finance Bldg., Phila., Pa., based on actual cost of work, plus fixed fee of $300,000 to (1) with certain deductions should cost of work exceed certain fixed limits. (1) (900 days); (5) $150; (6) $.67; (7) $.60; (8) $200; (9) $200; (10) $1.50; (11) $30; (12) $30. G. Leary Constr. Co., 17 State St., New York City, did not submit straight bid, but sent in letter saying he would do work on a cost plus basis, similar to contract for work now being done for them by Emergency Fleet Corp.

★S. C., Paris Island—Buildings—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract constructing 2 barracks, crew house, 6 out buildings, 2 storehouses, double officers quarters, wash house, cell house, bakery and work shop at Marine Barracks and Prison Camp, here, to Newport Contg. & Eng. Co., Law Bldg., Newport News, Va., $134,406 (100 days). Noted May 15.

Fla., Pensacola—Crane—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids May 19, installing one 20 ton electric traveling bridge crane, in wet basin boat shed, here, (1) work complete; (2) work complete in accordance with bidder's drawings and spec., from

Chesapeake Iron Wks., Westport, Ind., (1) $9460, (150 days).

Bedford Fdry. & Machine Co., Bedford, Ind., (2) $9775, (120 days).

Manning, Maxwell & Moore, 119 West 40th St., New York City, (2) $9855, (85 days).

Northern Eng. Wks., 2 Chene St., Detroit, (1) $10,430, (90 days).

Pawling & Harnishbaker, 38th and National Aves., Milwaukee, (2) $10,475, (150 days). Noted May 1.

★Fla., Pensacola—Sewer Discharge Pipe—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract extending 8-in. submerged discharge pipe, at Naval Air Sta., here, to Carroll Electric Co., 714 12th St., N. W., Wash., D. C., $11,490 (120 days). Noted May 8.

★O., Cincinnati—Bear Trap Leaves—U. S. Engr. Office, 1st Dist., let contract delivering and erecting bear trap leaves, for Dam No. 39, Ohio River, to Frandsen Constr. Co., 54 West Randolph St., Chicago, Ill., $31,200. Noted Mar. 6.

★Ill., Great Lakes—Machine Gun Range—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building, here, to Paschen Bros., 111 West Washington St., Chicago, $3900 (30 days). Noted Apr. 17.

★Mo., St. Louis—Levee Work—Secy. Mississippi River Comn., 1311 International Life Bldg., let contract for 290,000 cu.yd. earth work, in Lima Lake D. D., Ill., to H. Merritt, Duluth, Minn., $87,000. Noted Apr. 10.

★Cal., San Francisco—Dredging—U. S. Engr. Office, 401 Custom House, let contract dredging in Oakland Harbor, to San Francisco Bridge Co., Nevada Bank Bldg., $87,480. Noted Apr. 3.

Miscellaneous

PROPOSED WORK

Dam—Springfield, Mass.—Hampden Co. plans to build rein.-con. dam in Peconsic Brook in Forest Park. W. H. Brainard, Palmer, engr.

Trestle, etc.—Binghamton, N. Y.—See "Industrial Works."

Rubbish Incinerator—Syracuse, N. Y.—City having plans prepared for modern rubbish incinerator, to be operated in connection with new garbage disposal plant, to consist of sorting sheds and furnaces. About $100,000. H. C. Allen, city engr.

Transmission System—Contesville, Pa.—Chester Valley Electric Co. plans to build transmission system from here to Downington. About $80,000.

Retaining Wall — Detroit, Mich. — City having plans prepared by Dept. Pub. Wks., for 1 mi. concrete retaining wall or dyke along water front in Fairview Sect. and for extensive system of sheet piling to protect low land subject to overflow. C. W. Hubbell, city engr.

Road Machinery—Clintonville, Wis.—City plans to purchase 1 road grader, 4 wheel scrapers, 3 dump wagons and 1 road plow. J. J. Waite, street comr.

Pumps—Winona, Wis.—City soon receives bids for 4 air lift pumps, capacity from 200 to 400 gal. each., and miscellaneous appurtenances. S. S. Strouse, secy. Alvord & Burdick, 8 South Dearborn St., Chicago, engrs.

Harbor Improvements—Los Angeles, Cal.—City voted $4,500,000 bonds to improve Los Angeles Harbor (San Pedro). J. W. Ludlow, harbor engr. Noted May 1.

BIDS DESIRED

Castings, etc.—Quincy (Boston P. O.) **Mass.**—Until May 28, by city, furnishing f.o.b. Quincy, castings, 168 tons pipe, 28 gates, 30 gate houses, 25 hydrants and 41 special castings. M. L. Brown, city engr.

Bituminous Material—St. George, S. I., N. Y.—Until May 29, by C. D. Van Name, pres. Richmond Boro., furnishing and delivering in tank cars at any railroad station in borough, 65,000 gal. bituminous material for road surfacing.

Flooring—Clearfield, Pa.—Until June 6, by Comrs. Clearfield Co., placing rein.-con. flooring on 205 ft. truss bridge over Susquehanna River, at Humphrey's Farm; also creosoted wood block flooring on 210-ft. truss bridge over Susquehanna River, known as Bloom Bridge. J. E. Dale, comr.

Crushed Stone, etc.—Pittsburgh, Pa.—Comrs. Allegheny Co. receiving bids furnishing 50,000 tons crushed stone, 2 mechanical unloaders and 2 street sweepers for Rd. Dept. C. G. Chalfont, 301 Court House, engr.

Pumps—Wheeling, W. Va.—Until May 31, by S. G. Smith, receiver, Benwood-McMechen Consolidated Water Co. furnishing 2 motor driven centrifugal pumps. L. Hudson, 801 House Bldg., Pittsburgh, Pa., engr.; advertised in this issue.

Culverts—Warren, Minn.—Until May 27, by A. G. Lundgren, aud. Marshall Co., furnishing portable culverts to be used on different state road construction jobs during year, f.o.b. Marshall Co. About $10,000.

Flusher and Sprinkler—Lewiston, Mont.—Until June 9, by city, furnishing auto mounted power flusher and sprinkler on 900 and 1200 gal. type. H. L. Fitton, clk.

Breakwater—Souris, P. E. I.—Until June 12, by Dept. Pub. Wks., Ottawa, Ont., delivering and placing of about 6000 cu.yd. rough stone on portions of breakwater. About $20,000. Noted Apr. 10 under "Canada."

Ice Breakers—Richmond, Que.—Until June 5, by Dept. Pub. Wks., Ottawa, Ont., rebuilding 3 ice breakers, close faced stone and filled crib, 54 x 127 ft. x 120 ft., shaped, 10 to 15 ft. wide. Noted Apr. 10 under "Canada."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Bricks—Boston, Mass.—Dept. Pub. Wks. received bids May 15 furnishing (a) paving brick, (b) sewer brick, from J. P. O'Connell Co., 73 Tremont St., (a) $18.50 per M, (b) $20.50; Starrett-Field Co., 161 Devonshire St., (a) $18; (b) $22; Boston Bldg. Co., 10 Tremont St., (a) $19; (b) $21.

★Sand and Gravel—Boston, Mass.—Dept. Pub. Wks. let contract furnishing sand and gravel, to J. C. Coleman & Sons, 1620 Tremont St., $1.24 per cu.yd.

★Tank—Esmond, R. I.—Esmond Mills let contract building rein.-con. tank, with 100,000 gal. capacity, to T. I. Ellis, 171 Westminster St., Providence.

Oil—Brooklyn, N. Y.—E. Riegelmann, boro. pres., received lowest 3 bids May 14, furnishing and delivering (a) 2,000,000 gal. asphalt road oil; (b) 150,000 gal. tar road oil; (c) trap rock; (d) 2000 cu.yd. sand; (e) 14,174,000 and 5,260,000 lbs. anthracite coal, from Standard Oil Co., 26 Bway., New York City, (a) $8115; Texas Co., 17 Battery Pl., New York City, (a) $8500; Warner-Quinlan Asphalt Co., 17 Battery Pl., New York City, (a) $9170; Barrett Co., 17 Battery Pl., New York City, (b) $15,125; New York Trap Rock Co., 101 Park Ave., New York City, (c) $25,465; J. J. Guinan, 2314 Gravesend Ave., (c) $25,465; (d) $6500; Wyoming Valley Coal Co., (e) $79,334; Bacon Coal Co., Reid and DeKalb Aves., (e) $88,428.

★Transmission Line—Detroit, Mich.—Detroit Edison Co., David Whitney Bldg., will build 55 mi. transmission line between here and Port Huron, involving 60 ft. poles set 40 to mile, supporting copper cable transmitting 66,000 volts. Work will be done by day labor.

★Paving Material—Springfield, Ill.—Dept. Pub. Wks. let contract furnishing 310,000 bbl. portland cement for state and Federal Aid road and bridge work, to Lehigh Portland Cement Co., 111 West Washington St., Chicago; 392,700 bbls. to Universal Portland Cement Co., 210 South La Salle St., Chicago; 215,100 bbl., to Atlas Portland Cement Co., 134 South La Salle St., Chicago; 239,000 bbl., to Missouri Portland Cement Co., International Life Bldg., St. Louis, Mo.; 347,200 bbl., to Continental Portland Cement Co., Wright Bldg., St. Louis, Mo.; 224,400 bbl., to Marquette Portland Cement Co.; 161,000 bbl., to Sandusky Portland Cement Co., Columbus, O. Noted Apr. 17.

★Breakwater — Milwaukee, Wis. — Park Bd. let contract building 600 ft. breakwater along lake shore, south of South Shore Park, to E. E. Gillen Constr. Co., $2.37 per ton.

★Swimming Pool—Missoula, Mont.—City let contract building swimming pool to H. Settergren, 543 Brooks St., $12,380. Noted Apr. 10.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: June 3.

Barge Canal Terminals

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS

Albany, May 1st, 1919.

Sealed proposals will be received at the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon on Tuesday, June 3rd, 1919, at which place and hour they will be publicly opened and read, for the construction of Barge canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and of the acts amendatory thereof, as follows:

—1—

TERMINAL CONTRACT NO. 52-P

For paving Pier 6, East river, borough of Manhattan, New York City.

Contract plans, sheets 1 and 2.

—2—

TERMINAL CONTRACT NO. 113

For furnishing, testing and delivering electric capstans and trolley hoists at various Barge canal terminals.

—3—

TERMINAL CONTRACT NO. 117

For furnishing, testing and delivering battery-charging motor-generator sets, with switchboard panels for Barge canal terminals in New York City.

Plans may be seen and detached specifications, engineer's estimate of quantities, proposal blanks, forms of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of each contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent.) of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the stae for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner, if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

LEWIS NIXON,
Superintendent of Public Works.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 8, 1919.—Sealed proposals will be opened in this office at 3 P.M., June 5, 1919, for the construction of the United States post office at Denton, Texas. Drawings and specifications may be obtained from the Custodian of the site at Denton, Texas, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Price, $3.60 an inch—Copy can be received until Tuesday, 10 a.m., for issue out the next morning.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

OFFICIAL PROPOSALS

Bids: May 26.

Highway Work

Harrisburg, Pa.

Pennsylvania State Highway Department, Harrisburg, Pa. Sealed proposals will be received at the State Capitol until 10 A.M., May 26, 1919, when bids will be publicly opened and scheduled and contracts awarded as soon thereafter as possible for the reconstruction of the following pavements: 13,623 feet of either Bituminous Surface Course on a Concrete Foundation or Reinforced Concrete in Blair County: 32,229 feet of either Bituminous Surface Course on a Concrete Foundation or Reinforced Concrete in Butler County: 11,065 feet of either Bituminous Surface Course on a Concrete Foundation or Reinforced Concrete in Cameron County; 26,648 ft. of Reinforced Concrete and Hillside Vitrified Brick in Clarion County; 4984 ft. of Reinforced Concrete in Clinton County; 16,552 ft. of either Bituminous Surface Course on a Concrete Foundation or Reinforced Concrete in Crawford County; 33,917 feet of Bituminous Concrete Surface Course on a Concrete Foundation and Hillside Vitrified Brick or Reinforced Concrete and Hillside Vitrified Brick in Dauphin County; 53,372 ft. of Reinforced Concrete in McKean County; 17,891 ft. of either Bituminous Surface Course on a Concrete Foundation or Reinforced Concrete in Mercer County; 10,554 ft. of Reinforced Concrete and Hillside Vitrified Brick in Somerset County; 13,464 ft. of either Bituminous Surface Course on a Concrete Foundation or Reinforced Concrete in Union County; 9550 ft. of Reinforced Concrete in Venango County; 7783 feet of Reinforced Concrete and Hillside Vitrified Brick in Warren County; 27,688 ft. of either Bituminous Surface Course on a Concrete Foundation or Reinforced Concrete in Wayne County and 2085 ft. of Reinforced Concrete in Westmoreland County. Bidding blanks and specifications may be obtained free and plans upon payment of $2.50 per set upon application to State Highway Department, Harrisburg. No refund for plans returned. They can also be seen at office of State Highway Department, Harrisburg, 1001 Chestnut Street, Philadelphia, and 904 Hartje Building, Pittsburgh, Pa. Lewis S. Sadler, State Highway Commissioner.

PROPOSALS FOR DREDGING.—U. S. Engineer Office, Old Federal Bldg., Wilmington, Del.—Sealed proposals will be received here until 11 A.M., May 27, 1919, and then opened, for dredging Maurice River, N. J. Further information on application.

PROPOSALS FOR JETTY AND REVETMENT.—U. S. Engineer Office, Jacksonville, Fla.—Sealed proposals will be received here until 12 M., May 28, 1919, and then opened, for Jetty and Revetment Construction in Miami Harbor (Biscayne Bay). Further information upon application.

U. S. ENGINEER OFFICE, New London, Conn.—Sealed proposals for dredging in Greenwich Harbor, Conn., will be received here until 2 o'clock p. m., May 28, 1919, and then opened. Information on application.